

Curriculum Vitae of Bastian Nolte



Consultant & hands-on Architect in AI
and Cloud Optimized Solutions

Enterprise full-stack Developer
Engineering Excellence Coach



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Social Tags Solution Driver, Connector, Innovator

Tech Tags Robust, effective and efficient solutions including: Microsoft Azure, Internal Developer Platforms (IDP), CI/CD (GitLab, GitHub Actions), DevOps, AI Agent Teams, Claude Code Skills, Java (EE/Spring), Single Page Applications (Lit Web Components/React/Angular)

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Introduction

My name is **Bastian Nolte**. I have over 28 years of professional experience in the IT field, as a **consultant**, **IT architect**, **trainer/facilitator**, and **software developer**, as well as in project management roles with and without personnel responsibilities.

I consider myself more of a **generalist** and **enabler** than a specialist. My broad knowledge allows me to help you find and implement efficient solutions for even complex problems.

I look forward to supporting you in initiating and successfully **driving change** and **innovation** processes.

A key focus of my work is helping clients design and implement **modern**, **reliable**, and **robust** end-to-end solutions that optimally meet **stakeholder needs**. To foster innovation and productivity, I deploy cutting-edge technologies – including deep integration of **AI tools**, such as **skilled AI agent teams**.

I can help you, for example, with consulting on, designing, and implementing cloud-based solutions, single-page applications (SPAs) using Web Components, modern Java/Spring applications, and building an IDP (internal developer platform).

Abstract

In the last ten years, I have been mainly involved in projects in the insurance, industry and education sectors. My clients include companies like Capgemini Schweiz AG, ista (CK Hutchison), the Swiss Accident Insurance Fund (Suva), CSS Health Insurance, Volkswagen, Siemens, msg Systems, T-Systems and various institutions, like the Berlin State Library, the East Asian Institute, as well as various state authorities and councils.

We use agile development methods, frameworks and mechanisms, such as Scrum, LeSS, Continuous Integration, test-driven development, mob- and pair-programming, combined with process-supporting software like Atlassian JIRA and Confluence.

I possess a broad range of expertise in enterprise software architecture, enterprise development, and AI tooling, as well as in the most common programming languages and frameworks.

Although my current focus is more on consulting and hands-on architecture within the AI and cloud space, this knowledge significantly supports me in collaborating with my clients to design and implement efficient and resilient solutions.

Information

This CV is available in other versions (e.g. the "short version 'Azure'") and in the following formats: "PDF", "Web" and "Markdown". An **overview of all versions** and media formats can be found on the page <https://bastian-nolte.name/en/resumes>.

The latest version of this document can be downloaded from the web address <https://bastian-nolte.name/downloads/bastian-nolte.resume.en.pdf>.

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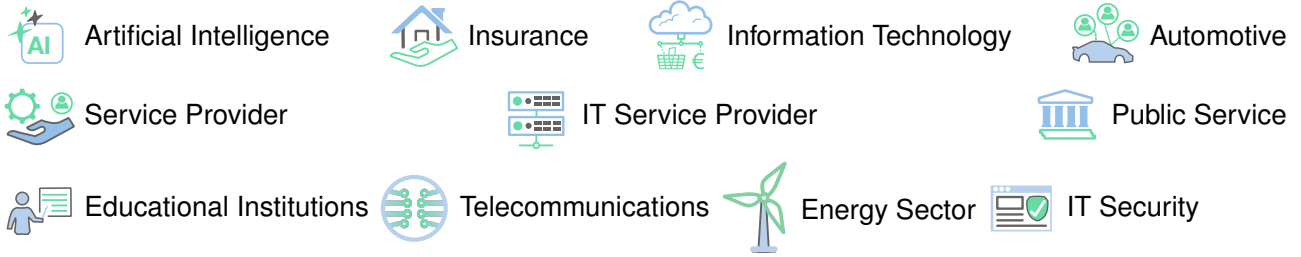
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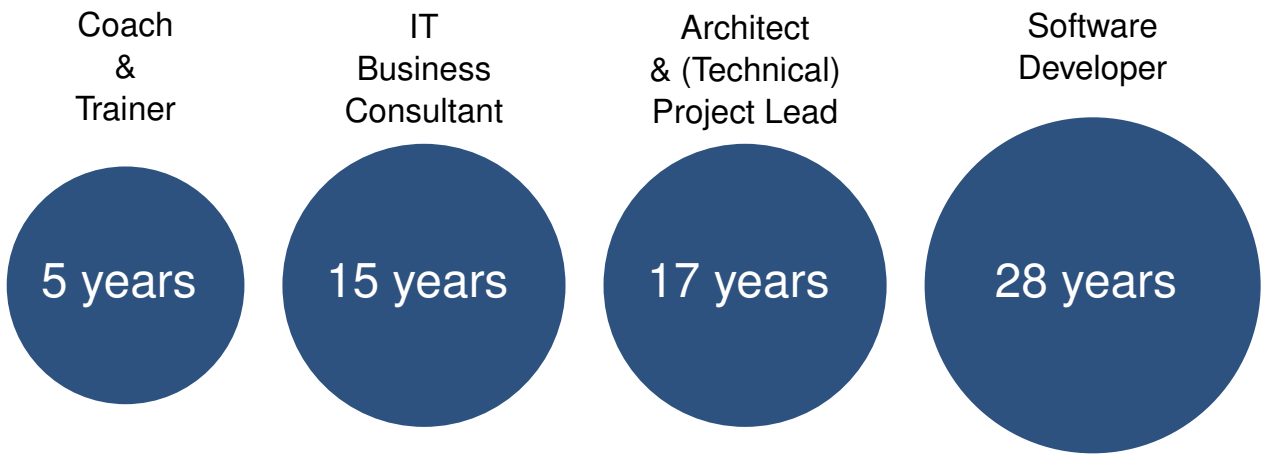
Sector experience & expertise




Clients



Roles



Personal

Name	Bastian Nolte	
Awards	Innovation Award Public Private Partnership 2009 (PPP) for the interdisciplinary use of New Media	
IT experience since	1998	
Citizenship	Germany	
Residence permit	Switzerland (permanent residence permit C)	
Languages	German (mother tongue), English (C1)	
Applicable	INTL (International)	
Preferred region of work	Remote: International (en/de) On site: Australia (generally possible), Switzerland (by arrangement)	
Leisure activities	Surfing, Kayaking, Languages	
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Preferences

(always open to new technologies)

Responsibilities / Roles	AI and cloud ready (hands-on) architecture; Consulting in AI, Azure, platform, and innovation topics
Platforms	Microsoft Azure Cloud Computing Services, Google Cloud, Kubernetes
Technologies / Frameworks	Azure Well-Architected Framework, Microsoft Cloud Adoption Framework for Azure, Java, Spring Boot, Lit (minimal-dependency single-page applications)

Soft skills

Acting on one's own responsibility	Analysing, Advising, Implementing, Checking / Testing, Improving
Myself	Introspection, Self-efficacy expectation, Personal responsibility, Self-discipline, High perceptiveness
Others	Helpfulness, Empathy, Critical faculties, Language competence
Collaboration	Team player, Flexibility, Committed, Professional competence

Project excerpts

The following chapters present my work profile to date using project extracts as examples. The presentation is in tabular form and includes my role in the respective projects, including a description of the projects, the technologies and the tools used.

Projects 2026

In-house projects and small-scale contracts

Agentic Job Search

Designed and implemented together with a Claude Code Agent Team: A nightly job search automation that scans job sources for relevant tech positions, scores candidates with Claude Haiku AI, and posts Slack digests of the best matches. Features Ports & Adapters architecture, resumable pipeline, Zod-validated API contracts, and snapshot-tested source adapters.

Role	Research, Architecture, Development
Period	Since April 2026
Activities performed	<ul style="list-style-type: none"> - Design and implementation of a Ports & Adapters architecture with composition-root dependency injection - Integration of job sources via REST APIs and RSS feeds with Zod schema validation - AI-powered job scoring using Claude Haiku via the Anthropic TypeScript SDK - Resumable pipeline with disk-cached API responses and append-only scored-jobs log - Keyword-based pre-filtering and cross-run deduplication via persistent store - Slack webhook integration for daily digest notifications with top matches - Snapshot contract tests for all source adapters using Vitest - Biome-based code quality with pre-commit hooks for linting and testing
Technologies / Products	TypeScript, Node.js® (node), Claude AI, Claude Sonnet, Opus, Haiku, etc., Anthropic TypeScript SDK (@anthropic-ai/sdk), Claude Code, Claude Agent Teams, Biome (Biome linter, Biome formatter), pnpm, Slack App, YAML Ain't Markup Language (YAML), Docker, Kubernetes (k8s), GitHub Actions, Adapter pattern (), Argo CD, cert-manager, Cloudflare Tunnels, Cloudflare Access

Resume Website & AI Chatbot

Migration of this resume website from Gatsby to Next.js using a Claude Code Agent Team, followed by the design and implementation of an AI-powered resume chatbot. The chatbot uses Claude Haiku via the Anthropic API with streaming SSE responses, letting visitors ask questions about professional background, skills, and experience.

Role	-
Period	April 2026 - April 2026
Activities performed	<ul style="list-style-type: none"> - Framework research and selection - Develop a project-specific CLAUDE.md file - Creation of a Claude Code Skill allowing Claude to maintain this resume's references efficiently - Carrying out the migration using a Claude Code Agent Team. - Design and implementation of an AI chatbot as a React widget with streaming responses - Development of a Netlify serverless function as chatbot backend using Claude Haiku, and rate limiting - Building a markdown generator to provide chatbot context - Accessibility and responsiveness of the chat widget (ARIA roles, keyboard navigation)
Technologies / Products	

Next.js (NextJS), Claude AI, Claude Code, Claude Agent Teams, Claude Code Skills, Retrieval-Augmented Generation (RAG), React (reactjs), Sassy CSS (SCSS, SASS), HTML5 (HTML), CSS, TypeScript, JavaScript (ECMAScript, ES), TSX (Typed JSX), JSX, JavaScript Object Notation (JSON), JSON Schema, YAML Ain't Markup Language (YAML), TOML (Tom's Obvious, Minimal Language), Scalable Vector Graphics (SVG, skalierbare Vektorgrafik), Latex, TeX Live, netlify, Git, Github, GitHub Actions, Docker, continuous integration, continuous delivery, JetBrains IntelliJ IDEA, Google Analytics, Jamstack, PRPL pattern (Push (or preload), Render, Pre-cache, Lazy Load), pnpm, Jest (JavaScript testing framework), Jest Snapshots (Jest Snapshot Testing), Claude Sonnet, Opus, Haiku, etc., Anthropic TypeScript SDK (@anthropic-ai/sdk), Framer Motion, Kubernetes (k8s), Grafana, PostgreSQL (Postgres), Argo CD, cert-manager, Cloudflare Tunnels, Cloudflare Access, Mend Renovate (Renovate, Renovate Bot)

Language Learning App with Lit and Web Components

Designed and implemented together with a Claude Code Agent Team: A modern language learning application built on native Web Components with only two production dependencies. Features include 3D flip animations, keyboard-first interaction, reactive state management, localisation, and design template support.

Role	Research, Architecture, Development
Period	Since March 2026

Activities performed	<ul style="list-style-type: none"> - Design and implementation of a component-based architecture using Lit and Shadow DOM - Reactive state management with TC39 Signals and computed properties - Implementation of 3D card flip animations with CSS transforms - Keyboard-first user experience with shortcut system - Persistent learning progress via localStorage - Minimal dependency architecture with only two production dependencies, reducing bundle size and supply-chain risk - Internationalisation with @lit/localize and XLIFF-based translation workflow - Code quality assurance with Biome 2 for linting and formatting, TypeScript strict mode for static type checking, and Git pre-commit hooks for automated quality gating
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Technologies / Products

Lit, Web Components, TC39 Signals, Vite, TypeScript, pnpm, Biome (Biome linter, Biome formatter), Claude AI, Claude Code, Claude Agent Teams, Mend Renovate (Renovate, Renovate Bot)

Surf Session Scheduler

Real-time surf session availability tracker that scrapes session data from a booking platform, caches it with a two-tier strategy (Caffeine + GCS), and pushes live updates to connected single page applications via WebSocket. The Spring Boot 4 backend compiles to a GraalVM native image for fast cold starts on Google Cloud Run, while the React/TypeScript frontend uses shadcn/ui components with responsive calendar and list views. Deployed to both on-premise Kubernetes (ArgoCD, Traefik) and Google Cloud Run via multi-architecture CI/CD pipelines.

Role	Architecture, Development, DevOps
Period	January 2026 - February 2026
Activities performed	<ul style="list-style-type: none"> - Design and implementation of a Spring Boot 4 backend with WebSocket push and event-driven cache refresh - Parallel external booking API fetching via CompletableFuture and Virtual Threads - Two-tier caching with Caffeine (in-memory, TTL-based) and optional GCS persistence for scale-to-zero scenarios - Compilation as GraalVM native image for minimal startup time and reduced memory footprint - Development of a React/TypeScript frontend with shadcn/ui, Tailwind CSS and Framer Motion - Real-time data synchronisation via WebSocket with automatic reconnection on tab switch (Visibility API) - Responsive rendering as calendar and list views with device and orientation detection - Multi-architecture CI/CD pipelines (amd64 + arm64) with GitHub Actions and Semantic Release - GitOps deployment on k3d Kubernetes via ArgoCD, Kustomize, Traefik ingress and cert-manager - Parallel deployment on Google Cloud Run with GCS cache persistence and Stackdriver metrics

Technologies / Products

Backend	Java, Spring Boot, Spring Framework (Spring), GraalVM, Gradle Build Tool, Java API for WebSocket, Nginx
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Frontend	React (reactjs), TypeScript, Vite, Tailwind CSS, shadcn/ui, Framer Motion, Node.js® (node)
Infrastructure & DevOps	Docker, Kubernetes (k8s), Argo CD, Kustomize, Traefik, cert-manager, Cloudflare Tunnels, Cloudflare Access, GitHub Actions, Google Cloud, Google Cloud Run, Grafana, Mend Renovate (Renovate, Renovate Bot)

ista Corporate (part of CK Hutchison Group)

(Oktober 2022 – Januar 2026)

ista is an international building management technology company operating in 20 countries with over 6,300 employees. Specialising in energy efficiency and CO₂ reduction for residential and commercial properties, ista manages data and digital processes for more than 460,000 customers across approximately 14 million properties worldwide (as of January 2026).

Azure Cloud Consulting & Software Craftmanship Coaching

Follow-up project

Azure cloud consulting and software craftmanship coaching for one of the world's biggest Microsoft Azure clients.

Role	Azure Cloud Consulting, Software Craftmanship Coaching
Period	July 2025 - January 2026
Activities performed	<ul style="list-style-type: none"> - Consulting in Azure architecture and cloud best practices - Support the international group's central Azure cloud solutions team in architecture and consult on implementing central top-notch Azure cloud solutions - Conducting training courses and workshops on code quality, test-driven development in the infrastructure environment, and cloud architectures

Enterprise-wide Azure Cloud Platform

As the central Azure cloud solutions team of an international corporation with companies in 20 countries (energy sector), we designed and developed the central cloud platform for the entire group, with hundreds of subscriptions and tens of thousands of Azure resources.

In doing so, we followed the «Azure Well-Architected Framework» and the «Microsoft Cloud Adoption Framework for Azure».

Besides the technical implementation, we focused on the organisational aspects of cloud adoption, such as governance, security, and compliance.

Our team worked closely with our company's solutions architects, the IPD team (internal developer platform) and the lift and shift team to help them implement state-of-the-art solutions and ensure a smooth transition of the on-premises services to the Azure cloud.

In addition to my work in that cloud team, I supported our stakeholders in solving more complex problems and provided training to employees, mainly on Azure cloud technologies and in code quality, best practice patterns, domain-driven design (DDD) and test-driven development (TDD).

Role	Hands-on Cloud Architect, Cloud Engineer, Training Consultant
Period	September 2022 - June 2025

Activities performed	<ul style="list-style-type: none"> - Designed and implemented the group's central Azure Solutions - Evolved the Azure Cloud Solutions Platform based on security, compliance, and governance requirements - Consulted our stakeholders on how to implement solutions, in consideration of governance and compliance, and following best practices patterns - Planned and configured complex CI/CD pipelines for the provision of infrastructure and applications on Azure - Trained colleagues, mainly in relation to architecture and development best practices - Supported our stakeholders in analysing and solving problems in the Azure Cloud
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Technologies / Products

Architectural frameworks	Azure Well-Architected Framework, Microsoft Cloud Adoption Framework for Azure, Azure Landing Zone Architecture, Azure Architecture Center, Security baselines for Azure, Azure FinOps
Governance & Security	Microsoft Entra ID (formerly Azure Active Directory), Tenable cloud security, Azure Policy, Microsoft Entra Privileged Identity Management (PIM), Microsoft Azure Security Center, Microsoft Defender for Cloud, Microsoft Sentinel, Azure Firewall Policy, Azure Monitor (Log Analytics), CIS Hardened Images (Virtual machine (VM) images)
Central services	Azure Dashboard Hub, Azure Dashboard, Azure Firewall Premium, Azure Application Gateway, Azure Web Application Firewall, Azure Public DNS, TLS Certificates, Azure Compute Gallery, Azure Communication Services, Azure Virtual WAN, Azure ExpressRoute, Azure VPN Gateway, Azure Kubernetes Service (AKS), Kubernetes (k8s), Grafana, PostgreSQL (Postgres)
Landing Zones	Azure Subscription, Azure Management Groups, Azure Backup vaults, Terraform Modules, Azure Virtual Network (vNET), Azure virtual network traffic routing, Azure User-Defined Route (UDR), Azure Network security group (NSG), Azure Private Link, Azure Private Endpoint, Azure Private DNS Zone, Azure Key Vault
Build Toolchain	GitLab, Argo CD, Crossplane, Terraform (infrastructure as code software, IAC), PowerShell (PowerShell Core), Pester (PowerShell testing framework), Azure Resource Manager (ARM), Azure Resource Manager templates (ARM templates), Bicep, JFrog (JFrog Platform, JFrog Artifactory), Mend Renovate (Renovate, Renovate Bot), MkDocs, Microsoft Copilot, Claude AI, Claude Code, Claude Code Skills, Claude Agent Teams, ChatGPT

Azure Data Aggregation & Curation Solution

Planning, implementation and operation of a data aggregation & curation application using Microsoft Azure Cloud Computing Services

Role	Full Stack (Analysis > Architecture » DevOps: Development > Deployment > Operations)
Period	July 2021 - June 2022

Activities performed	<ul style="list-style-type: none"> - Planning of the entire solution - Elaboration of a solution architecture - Building source code management as a monorepo with Yarn Workspaces - Azure Enterprise Integration Platform as a Service - Identity and access management with Azure Active Directory - Implementation of a web application with Vue.js, Azure Static Web Apps and Azure Function Apps - Azure Function Apps for scraping, aggregation, curation and sending to Slack channels - Azure Cosmos DB for data storage - Propagation of business events via Azure Event Grid (event-driven architecture) - Slack App, Slack Block Kit for messaging - Provisioning infrastructure via Azure Resource Manager and Bicep - Continuous Integration and Continuous Deployment with Azure DevOps Services
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Technologies / Products

Microsoft Azure Cloud Computing Services	Azure Active Directory (Azure AD), Azure API Management, Azure Function Apps, Azure Durable Function Apps, Azure Cosmos DB, Azure Event Grid, Azure Monitor, Azure Resource Manager (ARM), Azure Resource Manager templates (ARM templates)
Client / Frontend (SPA)	Vue.js, Pinia, HTML5 (HTML), CSS, axios
Backend	OpenAPI, TypeScript, axios, XPath
Build Toolchain	Azure DevOps Services, Terraform (infrastructure as code software, IAC), Node.js® (node), PowerShell (PowerShell Core), Yarn - Package Manager
Tools for test-driven development	Jest (JavaScript testing framework), Cypress (JavaScript End to End Testing Framework)
Development Environments & Tools	Microsoft Visual Studio Code (VS Code), Azure Functions Core Tools, Postman

A platform for brokering tickets of Swiss attractions

This project was about planning and implementing a platform for the central distribution of tickets of Swiss attraction providers via a common it-platform. In addition to offering tickets, we implemented features such as weather information, opening hours, ride times, and billing.

In this startup project, I had a multifunctional role. Initially, I was mainly involved in consulting and training to then subsequently support the setup of an Azure cloud environment and the development of the overall solution (hands-on).

In the beginning, I provided training on process models from project organization, such as SCRUM and Kanban. Then, in joint workshops, we evaluated which software best met our requirements. We then set up this software together and integrated its use into our daily processes.

After introducing essential tools such as Atlassian Jira, Confluence, Mural and Zoom, we moved towards more development-related topics.

In the second phase, we continued to build understanding and technical foundations for agile software development in workshops. Topics included continuous integration and deployment, the test pyramid, and code quality topics such as SOLID, TDD, mob and pair programming, and KISS.

In the third phase, we jointly designed and implemented a minimum marketable product (MMP). We built the development and integration environments, configured and provisioned the Azure cloud resources and performed the software development. In the grid below, you will find information on the technologies used.

Role	Multifunctional role (consulting, teaching, hands-on)
Period	September 2019 - December 2020
Activities performed	<ul style="list-style-type: none"> - Consulting - Training - Introduction CI/CD with Azure DevOps - Introduction Azure Cloud Computing - Hands-on development of the MMP
Technologies / Products	
Microsoft Azure Cloud Computing Services	Azure Active Directory B2C (Azure AD B2C), Azure Function Apps, Azure Durable Function Apps, Azure Web Apps, Azure SQL Database, Azure Monitor, Azure API Management, Azure Event Grid, Azure Service Bus
Client / Frontend	Angular, Angular CLI, NgRx (reactive state for angular), RxJS, Angular Material, HTML5 (HTML), CSS
Backend	OpenAPI, .NET 6 (.NET Core), F#, C#
Build Toolchain	Azure DevOps Services, Github, Azure Resource Manager (ARM), Azure Resource Manager templates (ARM templates), Bicep, Node.js® (node), PowerShell (PowerShell Core)
Tools for test-driven development	Karma Test Runner (Karma), Protractor end-to-end test framework (Protractor), Jasmine Modultest-Bibliothek (Jasmine), TSLint
Development Environments & Tools	Microsoft Visual Studio Code (VS Code), Azure Functions Core Tools, Figma, NuGet, Yarn - Package Manager

Curriculum Vitae

Planning and implementation of this Curriculum Vitae / Résumé website.

Role	Full Stack (Analysis > Architecture > Development > DevOps)
Period	November 2020 - February 2021
Activities performed	<ul style="list-style-type: none"> - Planning of the new résumé page - Solution architecture design - Research and selection of technologies to be used - Texts & (vector) graphics creation - Setting up Continuous Integration - Setting up Continuous Deployment - Implementation of website & PDF generation. . . - . . . from a «single source of truth» - . . . based on state-of-the-art technologies (Gatsby Static Site Renderer, HTML-5) - Rollout and operation
Technologies / Products	Gatsby (gatsbyjs, Static Site Renderer), React (reactjs), Sassy CSS (SCSS, SASS), HTML5 (HTML), CSS, TypeScript, JavaScript (ECMAScript, ES), TSX (Typed JSX), JSX, JavaScript Object Notation (JSON), JSON Schema, YAML Ain't Markup Language (YAML), TOML (Tom's Obvious, Minimal Language), Scalable Vector Graphics (SVG, skalierbare Vektorgrafik), Open Graph protocol, GraphQL, Latex, TeX Live, netlify, Git, Github, Docker, continuous integration, continuous delivery, Azure DevOps Services, JetBrains IntelliJ IDEA, Google Analytics, Jamstack, PRPL pattern (Push (or preload), Render, Pre-cache, Lazy Load)

CSS Insurance

(2018 - 2020)

CSS Insurance is not just a health insurance company but an insurance company for every situation in life. When it comes to health, around 1.7 million people place their trust in CSS. Its wide range of products includes health, accident and property insurance.

Excellence and Innovation

Consultant and trainer for innovation, as well as software excellence and craftsmanship

From 2018 to 2020, I supported CSS Insurance in various areas. I promoted the further development of employees in my stream towards even more excellence and know-how by planning and conducting training and workshops on excellence and innovation topics.

I also supported and actively participated in introducing mob and pair programmings, mainly on software craftsmanship and software excellence.

Furthermore, I supported the client in the development areas of front-end and back-end development and DevOps to initiate the transition into the world of cloud computing.

I helped my SCRUM teams analyse concrete problems, find solutions and implement them while adhering to best practices, and provided advice to the teams and lead architects of my stream.

Role	Consultant and trainer for excellence and innovation topics
Period	October 2018 - June 2020
Activities performed	<ul style="list-style-type: none"> - Conducted workshops and training: - Software Development in the Mob "Methodology and Implementation". - Coding Dojos on various software craftsmanship topics and excellence topics, such as test-driven development (TDD), clean code and SOLID principles. - Introduction to Domain-driven Design (DDD) - Fullstack development under MacOS - The basics of the programming language Kotlin - Programming with "observable streams" and ReactiveX - High-performance microservices with Quarkus and GraalVM - Introduction to Docker and Kubernetes - Continuous Integration with Microsoft Azure DevOps Pipelines - Introduction to Microsoft Azure Cloud - Front-end development in Angular, React, Vue.js with Flow/Redux/NgRx and Immutables
Technologies / Products	
Client / Frontend	React (reactjs), JSX, Vue.js, Angular, TypeScript, Apache Cordova, HTML5 (HTML), CSS, Sassy CSS (SCSS, SASS), JavaScript (ECMAScript, ES), JavaScript Object Notation (JSON), Material Design
Client Build Toolchain	npm, Node.js® (node), TeamCity CI/CD
Middleware / Backend	Kotlin, Java Platform, Enterprise Edition (JEE), Microsoft Azure, in detail: Quarkus (Supersonic Subatomic Java), GraalVM, Enterprise JavaBeans (EJB), Java Persistence API (JPA), Java Transaction API (JTA), Java Named Queries (JPA Named Queries), Java Message Service (JMS), Java API for XML Web Services (JAX-WS), Java API for RESTful Web Services (JAX-RS), Contexts and Dependency Injection (CDI), IBM WebSphere Application Server (WSA), Airlock Web Application Firewall (WAF), Apache Commons, Apache Collections, Apache Log4J (Log4J), Simple Logging Facade for Java (SLF4J), Java Authentication and Authorization Service (JAAS), SQL, PL/SQL, Microsoft Azure Cloud Computing Services (Microsoft Azure)

Server Build Toolchain	Apache Maven (Maven), TeamCity CI/CD
Tools for test-driven development	<p>code quality tools & continuous delivery & version control SonarQube, Lint, Docker, Azure DevOps Services, Git, Atlassian Bitbucket (Bitbucket, Stash), Github, Splunk</p> <p>Server Arquillian, H2 Database Engine (H2), JUnit, Mockito, PowerMock, Hamcrest</p> <p>Client Karma Test Runner (Karma), Protractor end-to-end test framework (Protractor), Jasmine Modultest-Bibliothek (Jasmine), Selenium Grid (Grid), Jest (JavaScript testing framework)</p>
Development environments & tools	JetBrains IntelliJ IDEA, Oracle SQL Developer, Postman, MacOS, Microsoft Windows 10 (Windows 10)
Agility toolchain	Atlassian Jira Server (Jira), Atlassian Confluence (Confluence), Atlassian Bitbucket (Bitbucket, Stash)

SUVA Accident Insurance

(09/2015 - 12/2017)

From September 2015 to December 2017, I was involved in various projects at Swiss Accident Insurance Fund (Suva).

The Swiss Accident Insurance Suva is an essential part of the Swiss social security system. As an independent company under public law, Suva insures people at work and in their leisure time. Its prevention programmes in occupational and leisure safety prevent accidents and occupational illnesses, promote a safety culture in companies, raise awareness of hazards, and motivate people to take personal responsibility.

In the following chapters, I will break down the projects I was able to accompany at Suva.

Risk Pricing

In the RiskPricing programme, the processes for premium assessment and the systems for setting premium rates were redeveloped, taking into account the industry, risk community, bonus-malus and experience rating, and new large claims and reinsurance solutions were also implemented.

A solution was created for analysing the current risk situation and the financial situation, taking into account information from the risk information system and the ad cubum SYRIUS insurance software, based on which the premium situation can be assessed and the reduction of compensation reserves calculated.

With the inclusion of the bonus-malus models and the experience rating, simulations can be carried out to set the premium rates in occupational accident and non-occupational accident insurance lines. In addition, the calculation and creation of the basic sheets and the generation of the raw data for digital printing in the context of customer communication take place in the newly created system.

Role	Application architect and lead developer in a SCRUM team with 8 developers
Period	October 2016 - December 2017 (worked at suva since 2015)

Activities performed	<ul style="list-style-type: none"> - Support the Scrum Master and the solutions architect in the rough estimation of the project effort and identify possible project risks. - Advise the project manager and the project owner about conceivable implementation variants of the requirements from the technical concepts. - Data modelling of the application part of the "grundlagenblatt" calculation (the injurance policy). - Design and implementation of the prototype as a proof of concept, as well as significant parts of the application, especially the reusable components, both in frontend and backend. - Training of team members on Java (especially the Streaming API and Lambda Expressions), Java Enterprise Edition and in the use of modern web technologies (especially TypeScript and Angular). Imparting knowledge on the use of modern toolchains, especially for the realisation of test-driven development (in detail the implementation and execution of module, integration and e2e tests), as well as on continuous development and delivery.
Technologies / Products	
Client	HTML5 (HTML), CSS, Sassy CSS (SCSS, SASS), Angular, TypeScript, JavaScript (ECMAScript, ES), Angular UI Grid, JavaScript Object Notation (JSON), RESTretto-Framework, Apache HTTP Server
Client Build Toolchain	npm, Node.js® (node), Jenkins (Hudson)
Middleware / Backend	Java Platform, Enterprise Edition (JEE) und Java SE, in detail: Enterprise JavaBeans (EJB), Java Persistence API (JPA), Java Transaction API (JTA), Java Named Queries (JPA Named Queries), Java Persistence Query Language (JPQL, Jakarta Persistence Query Language), Java Message Service (JMS), Java API for XML Web Services (JAX-WS), Java API for RESTful Web Services (JAX-RS), Contexts and Dependency Injection (CDI), Expression Language (EL), Aspose Cells, Aspose PDF, Aspose Words, Oracle WebLogic Server (WLS), Oracle Service Bus, Airlock Web Application Firewall (WAF), Apache Commons, Apache Collections, Apache Log4J (Log4J), Simple Logging Facade for Java (SLF4J), YAML Ain't Markup Language (YAML), Apache DeltaSpike, Java Authentication and Authorization Service (JAAS), JSON Web Token (JWT), Kerberos, Single Sign-on (SSO), RESTretto-Framework, Web Services Description Language (WSDL), Web Application Description Language (WADL), SQL
Server Build Toolchain	Apache Maven (Maven), Apache Ant (Ant), Jenkins (Hudson)
Tools for test-driven development	code quality tools & continuous delivery & version control Jenkins (Hudson), Jenkins Pipeline, SonarQube, Lint, Docker, Git, Liquibase (Database Refactoring), Splunk Server Arquillian, Arquillian ShrinkWrap (ShrinkWrap), DbUnit, H2 Database Engine (H2), JUnit, Mockito, PowerMock, Hamcrest Client Karma Test Runner (Karma), Protractor end-to-end test framework (Protractor), \$httpBackend, Jasmine Modulstest-Bibliothek (Jasmine), Selenium
Development environments & tools	JetBrains IntelliJ IDEA, Eclipse IDE, Oracle SQL Developer, Postman, SoapUI
Operation Systems	Red Hat Enterprise Linux (RHEL), Microsoft Windows 10 (Windows 10)
Agility toolchain	Atlassian Jira Server (Jira), Atlassian Confluence (Confluence)

Third-party systems	Informatica PowerCenter (ETL), Oracle Business Intelligence Enterprise Edition (OBIEE), Oracle OLAP (OLAP), Oracle Application Express (APEX), Oracle Business Intelligence Publisher (Oracle BI Publisher), adcubum SYRIUS (Assekuranzsoftware)
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iComm Konnex

In the iComm Konnex programme, various projects were implemented using the newly developed suva-internal framework RESTretto.

Role	Full stack developer in a Scrum team
Period	September 2015 - August 2016 (worked at suva till 2017)
Activities performed	<ul style="list-style-type: none"> - Primarily, full stack development with Java EE and Angular, including... - Type examination certificates (administration and web application) - Limit values at the workplace (administration and web application) - Contacts and addresses / agency search (web application) - further details on request

Capgemini Schweiz AG

Support in the run-up to the production roll-out of an IT system for a leading global provider of solutions for access control and locking systems in the security industry, which gradually replaced and consolidated the core systems of the country subsidiaries.

Role	Senior developer, client co-architect, IT consultant
Period	December 2014 - October 2015
Activities performed	<ul style="list-style-type: none"> - Conception, creation, integration and documentation of new core components for the client application. - Optimisation of the project's own table component: sorting and filtering, as well as significant increase in performance with very large data volumes. - Troubleshooting and optimisation of existing client core components. - Consultation on implementation and performance issues. - Documentation and best practices.
Technologies / Products	Java 1.7, Spring Framework (Spring), Microsoft SQL Server (MS SQL Server), Apache Tomcat® (cluster) (Tomcat)
Middleware/Server	Spring Boot, Spring Data, Contexts and Dependency Injection (CDI), Web Services Description Language (WSDL), Java Persistence API (JPA), Hibernate, SAP ERP-Anbindung via Webservice und JMS, Apache Commons, AspectJ, Java Named Queries (JPA Named Queries), Transact-SQL (T-SQL)
Client	Java 1.7, Swing GUI-Toolkit (Swing), Spring Remote, Quasar, Apache Commons, Apache Collections
Testing	JUnit, Jenkins (Hudson), continuous integration, FindBugs™
Toolset	JetBrains IntelliJ IDEA, AspectJ, Apache Maven (Maven), Apache Subversion (Subversion), SparxSystems Enterprise Architect (Enterprise Architect)

Automotive - Volkswagen AG

(Oktober 2011 - August 2014)

From October 2011 to August 2014, I worked on various projects for Volkswagen AG (including Audi). I will discuss the projects in detail in the following chapters.

JavaFX Application Framework

Architecture and lead development of an application framework for the client platform based on Java and JavaFX

Role	Architect, lead developer
Period	March 2014 - August 2014 (Oktober 2011 - August 2014 at VW)
Activities performed	<ul style="list-style-type: none"> - Conception, creation and documentation of a JavaFX application framework, which realises the user interface according to the MVC principle. - Optional configurative or programmatic generation of dashboards, favourite control, breadcrumbs, ribbon panels and search function from a group and module configuration. - Localisation and internationalisation, validation, as well as visualisation and handling of pending changes. - Multistage support, i.e. window-support, as well as drag and drop between these windows. - Central exception handling is realised by displaying corresponding message dialogues. Both the display of technical messages and error dialogues to handle unexpected problems, including the option of sending emails, are supported. - Life-cycle management takes care of starting and stopping use cases and provides functions for loading and saving data. - Message-bus for targeted communication between the framework and use case controllers, as well as between the use case controllers themselves. - In addition to creating a modern and intuitively usable interface, the focus during design and development was on creating a framework that enables the simple implementation of use cases while avoiding code redundancies.
Technologies / Products	<p>Java 1.8, JavaFX, ControlsFX, Apache Commons, JetBrains IntelliJ IDEA, Apache Maven (Maven), Apache Subversion (Subversion), Jenkins (Hudson), SonarQube, Atlassian Jira Server (Jira), Atlassian Confluence (Confluence), HP Application Lifecycle Management (HP ALM)</p>

Anlauf- & / Eigenschaftsplanung

Architecture and implementation of a library as well as the client platform (fat client) for the start-up planning of the production of new vehicle models for a large German car manufacturer. Development of the client architecture, as well as lead development client, and co-development middleware and backend.

Role	Architect (client), lead developer (client), developer (middleware and backend), consultant
Period	September 2013 - August 2014 ((Oktober 2011 - August 2014 at VW))
Activities performed	<ul style="list-style-type: none"> - Swing client, which implements the user interface according to the MVC principle. - Communication with the middleware via Hessian Binary Web Service Protocol with Spring. - Focus on client architecture, performance optimisation and code cleaning.

Technologies / Products

Java 1.6, Swing GUI-Toolkit (Swing), Spring Framework (Spring), Hibernate, Eclipse IDE, IBM WebSphere Application Server (WSA), Apache Maven (Maven), Oracle Database (Oracle Database Server, Oracle RDBMS), Apache Subversion (Subversion), Apache POI (Java API for Microsoft Documents), Apache Commons, Google Guava, Atlassian Jira Server (Jira), HP Application Lifecycle Management (HP ALM)

CO₂ and weight reduction

Further development, bug fixing, refactoring and architectural realignment of a platform for planning and evaluation, as well as calculation and controlling of innovation projects in the automotive sector (primarily CO₂ and weight reduction) of a large German car manufacturer

Role	Architect (Life Cycle and Client), Full-stack Developer, Consultant
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Period	October 2011 - September 2013 (October 2011 - August 2014 at VW)
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Activities performed	<ul style="list-style-type: none"> - Focus on architecture, performance optimisation and code cleaning of the existing application. - Implementation of new features in a Swing-Fat-Client, which realises the user interface according to the MVC principle. - Creation of a huge high-performance table component that performs complex calculations and enables the filtering and aggregation of data. - Use of user interface controllers and use case controllers. - Communication with the middleware via command channel using the Hessian Binary Web Service Protocol. - Use of UML, Business Objects, Value Objects, Value Object Assembler, Data Transfer Objects, Data Access Objects, Mementos.
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Technologies / Products

Java 1.6, Java Platform, Enterprise Edition (JEE), Swing GUI-Toolkit (Swing), Spring Framework (Spring), Spring Remote, Hibernate, Eclipse IDE, IBM WebSphere Application Server (WSA), Apache Maven (Maven), Apache Ant (Ant), Oracle Database (Oracle Database Server, Oracle RDBMS), Apache Subversion (Subversion), OSGI, Apache POI (Java API for Microsoft Documents), Apache Commons, Apache Collections, HP Application Lifecycle Management (HP ALM), PL/SQL

InSecMa Solutions

(2002 - 2017)

InSecMa Solutions is a software company that deals with the creation of individual software and the planning, installation, configuration and operation of networks and Unix system infrastructures.

Its customers include public authorities, institutions and clients from industry. The company also develops and sells a Linux distribution for schools based on Debian GNU/Linux.

I am the founder of the company, which was founded in 2002. I have supervised the company's projects from an architectural point of view, in addition to my work as managing director. In the following, I will discuss some of the company's projects.

Licence Manager

Development of a licence manager as a web-based Java EE application with an integrated SOAP interface, which enables the administration of software and customers with regard to the management of software licences. It is a classic administration application that relies primarily on input masks. The product is currently used to administer about 150 servers at 120 locations with about 60,000 connected client workstations.

Role	Projektleiter, Full Stack Architekt
Period	February 2010 - October 2010
Activities performed	<ul style="list-style-type: none"> - Dynamic management interface (Ajax, Primefaces, Prettyfaces) - Administration of customers, locations and contacts - Software management - Allocation of licence keys - Signing and encryption - PDF creation - Communication with software to be installed via SOAP interface - Java, PHP and Python client
Technologies / Products	<p>Java Platform, Enterprise Edition (JEE), Java Server Faces (JSF), Prettyfaces, Primefaces, Contexts and Dependency Injection (CDI), Enterprise JavaBeans (EJB), Java Persistence API (JPA), Java Named Queries (JPA Named Queries), EclipseLink (Eclipse Toplink, Toplink), Java Transaction API (JTA), Java Authentication and Authorization Service (JAAS), SOAP, MySQL, Glassfish, Apache Maven (Maven), SonarQube, GNU Privacy Guard, Trac Integrated SCM and Project Management (trac)</p>

BMBF Pilot Project Sys-C

System solution for the schools of the city of Chemnitz to support the interdisciplinary use of new media (Sys-C).

As part of the Sys-C project, we developed a solution to support the interdisciplinary use of new media at schools in the city of Chemnitz. The Federal Ministry of Education and Research and the European Social Fund funded the project. The project management agency is the German Aerospace Center (DLR), more precisely the Project Management Agency New Media in Education (PT-DLR, Project Management Agency - part of the German Aerospace Center). We developed a uniform system software for school use in lessons for approximately 85 schools.

Role	Project Manager, Solutions Architect
Period	February 2005 - December 2015 (Development of 1st version: 2005 - 2007)

Activities performed

- Graphical user interface (GUI) to administrate users, classes, courses and projects, computer rooms and computers, as well as printers.
- User management, including bulk import, automatic transfer of students and support of various customisable user roles.
- Generation of initial passwords or use of default passwords.
- Automated integration of workstation computers.
- File server for Microsoft Windows, Linux and Mac OS X workstations.
- DHCP and DNS server, including automatic configuration without user intervention.
- Support of Windows workstations in domain and workgroup mode.
- Support of Mac OS X and Linux clients.
- Person-, class- and course-related file quota, as well as mail quota.
- Email server including web-based groupware application with address book, calendar and reminder function.
- Room- and user-based internet access control, including child and youth protection filters.
- Virus scanner for file server, email server, and Internet access (HTTP and FTP).
- Distribution and collection of class and project work (classwork function).
- Printer administration, including print account solution for network printers and printers released via workstations.
- CD-ROM archive.
- Database, time and web server.
- Fully automatic update function that keeps the servers up to date without user intervention.
- Support of various presets, such as the automatic creation of initial passwords or the setting of user quotas.
- Batch processing functions (e.g. reset quota for a specific user selection).
- Didactic screen control solution.
- Monitoring of individual workstations.
- Tracking of all workstations in a computer group.
- Screensharing to a single workstation.
- Screensharing to all workstations of a computer group.
- Locking the mouse and keyboard of a workstation.
- Locking the mouse and keyboard of a group of workstations.
- Server-based client inventory.
- Automatic software distribution for Windows, Max OS X and Linux.

Technologies / Products

Debian GNU/Linux (Debian), PHP, Python, Perl, JavaScript (ECMAScript, ES), PyQT, QT, Visual Basic Script (VBScript, VBS), Apache Subversion (Subversion), iptables, BIND Nameserver (bind, DNS Server), Apache HTTP Server, Squid Cache & Proxy Server (squid), DansGuardian, Exim Internet Mailer (Exim), Cyrus IMAP, Pluggable Authentication Modules (pam, pamd), OpenLDAP (LDAP), MySQL, Moodle, DHCP daemon (dhcpd), Network Time Protocol Daemon (ntpd), Samba File- & Print Server (smb, cifs), Kerberos, Clam AntiVirus (ClamAV, clamd), AMaViS (A MAil Virus Scanner), Open Technology Real Services (OTRS, Open Ticket Request System)

Server Infrastructure SBB/SPK**Stiftung Preussischer Kulturbesitz, Staatsbibliothek zu Berlin**

As part of a conversion of the web services of the Berlin State Library to a high availability solution, we planned, installed, configured and maintained various services.

Role	Project Manager, Solutions Architect
Period	June 2003 - December 2010
Activities performed	<ul style="list-style-type: none"> - Planning, configuring and operating a multi-redundant web server system, based on Debian GNU/Linux operating systems, combined with Apache web servers and a high availability cluster software. Usage of redundant server components as well as data storage. - Developing a backup strategy and set-up of backup and disaster recovery tools. - Bastion host system design. - Usage: > 1.5 million site visits / month. - Development and support various web-based solutions for the Prussian Cultural Heritage Foundation, the Berlin State Library, and Berlin's National Museums. - Web frontend server for the book ordering system of the Berlin State Library based on Linux. Extension to SCO compatibility. Attachment of various security tools for use as a bastion host. - Installation of a new email server cluster based on Postfix, migration of approx. 1000 users. - Web application that allows central access to contents of various worldwide distributed databases of East Asian manuscripts (https://crossasia.org).
Technologies / Products	Debian GNU/Linux (Debian), Apache HTTP Server, PHP, Postfix (Mail Transfer Agent, MTA), iptables, BIND Nameserver (bind, DNS Server), Webalizer (Web-Analytics-Software), Kerberos, OpenLDAP (LDAP), free RADIUS (RADIUS, Remote Authentication Dial-In User Service), Oracle Database (Oracle Database Server, Oracle RDBMS)

Backup concept SPK

Creating and implementing a backup concept for the Prussian Cultural Heritage Foundation

We developed a backup strategy for the Prussian Cultural Heritage Foundation, ensuring quick recovery of the Unix and Linux server systems and various data storage devices and databases after system failures. Servers at two locations, as well as their configurations and system states, are backed up. Targeted recovery of data stocks is supported, as well as disaster recovery.

Role	Solutions Architect
Period	June 2004 - June 2006
Activities performed	<ul style="list-style-type: none"> - Planning and implementation of the backup concept. - Planning and implementation of the disaster recovery strategy.
Technologies / Products	Debian GNU/Linux (Debian), SEP sesam

Reconnecting BeLa

Implementation of «Spandau district office of Berlin»'s new connection to the Berlin state network

Role	Solutions Architect, Administrator
Period	January 2003 - June 2003

Activities performed	<ul style="list-style-type: none"> - Multi-level firewall system based on Linux and BSD - Intrusion Detection System [IDS] - Intrusion Prevention System [IPS] - Mail relay server including anti-virus software - DNS server and web server - HTTP and FTP proxy server - Email server (IMAP, POP3) - System-wide protection through various security tools - Hardened administration workstation
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Ordering system ZIT-BB

Developed an electronic ordering system for the State Office for Data Processing and IT Service Tasks (LDS), now Brandenburg IT Service Provider (ZIT-BB).

The new procurement procedure makes an essential contribution to the modernisation of the Brandenburg administration. All authorities have access to this flexible and valuable instrument to meet their IT needs.

InSecMa implemented the planning and creation of a web-based application through which the various departments of the administrations can place orders via the intranet.

Role	Project Manager
Period	January 2002 - October 2002
Activities performed	- Planning and development of the ordering system
Technologies / Products	Microsoft Visual FoxPro (VFP), West Wind Framework, HTML (HTML), CSS, JavaScript (ECMAScript, ES)

Printium AG

Printium AG was a company specialised in trading and processing print orders via the internet. In my role as head of the frontend development department, I was primarily responsible for the coordination of the developers and architectural issues.

Role	Head of Frontend Development
Period	January 2000 - December 2002
Activities performed	<ul style="list-style-type: none"> - Team coordination - Architecture and co-development of a browser independent JavaScript library - Architecture and co-development of frontend CMS - Architecture and co-development of frontend e-procurement and print processing
Technologies / Products	Java Platform, Enterprise Edition (JEE), Microsoft Visual FoxPro (VFP), West Wind Framework, HTML (HTML), CSS, JavaScript (ECMAScript, ES)

Joker Software

Joker Software was a Hamburg-based advertising company specialising in digital media.

Role	Software Developer & Linux Administrator
Period	January 1998 - December 1999
Activities performed	<ul style="list-style-type: none"> - Interactive website "Simon the Sorcerer" for Hasbro Interactive using Flash and PHP - Online annual business report on the Internet for Lufthansa Technik - Various interactive websites in cooperation with Heye & Partner Salesforce, Hamburg
Technologies / Products	Adobe Flash, PHP, Microsoft Visual FoxPro (VFP), HTML (HTML), JavaScript (ECMAScript, ES), CSS, JavaScript (ECMAScript, ES), Debian GNU/Linux (Debian)

Know-how

You will find a complete **representation of my know-how** in my digital curriculum vitae at <https://bastian-nolte.name/en/resume#know-how>.

Artificial Intelligence

Platforms / Chatbots / Agents / Tools	Claude AI, Claude Code, Claude Cowork, Replit, ChatGPT, GitHub Copilot, Microsoft Copilot, JetBrains Junie (JetBrains AI coding agent)
Models	GPT *, Claude Sonnet, Opus, Haiku, etc.
Pattern and Tasks	End-to-end AI model transformation, Modelling, Prompt Engineering, Agentic Workflows, Claude Rules, Custom Agents, Custom Subagents, Claude Code Skills, Model Context Protocol (MCP), Retrieval-Augmented Generation (RAG), Claude Agent Teams, Claude Code Hooks, Claude Code Plugins, Ralph Wiggum Loops

Microsoft Azure

Architecture	Azure Well-Architected Framework, Microsoft Cloud Adoption Framework for Azure, Azure Landing Zone Architecture, Azure Architecture Center, Security baselines for Azure, Azure FinOps
Azure Enterprise Integration Platform as a Service	
Network / Security	CIS Hardened Images (Virtual machine (VM) images), Microsoft Entra Privileged Identity Management (PIM), Azure Firewall Premium, Azure Firewall Policy, Azure Network security group (NSG), Tenable cloud security, Microsoft Sentinel, Microsoft Defender for Cloud, Microsoft Azure Security Center, Azure Virtual WAN, Azure VPN Gateway, Azure Virtual Network (vNET), Azure virtual network traffic routing, Azure Private Endpoint, Azure Private Link, Azure Public DNS, Azure User-Defined Route (UDR), Azure Web Application Firewall, Azure ExpressRoute, Azure Application Gateway, Azure Communication Services, Azure Private DNS Zone, Azure Kubernetes Service (AKS), Azure Backup vaults, Azure Communication Services, Azure Compute Gallery, TLS Certificates
Compliance & Governance	Azure Management Groups, Azure Policy, Azure Subscription

Identity and access management	Microsoft identity platform, Microsoft Entra (Secure access for a connected world), Microsoft Entra ID (formerly Azure Active Directory), Azure Active Directory (Azure AD), Azure Active Directory B2C (Azure AD B2C), Microsoft Authentication Library (MSAL)
Azure API Management	
Azure App Service	Azure Web Apps, Azure Static Web Apps, Azure Function Apps, Azure Durable Function Apps, Azure Container Apps, Azure Functions Core Tools
Container	Azure Container Instances (ACI), Azure Container Registry (ACR, Docker registry service)
Integration	Azure Event Grid, Azure Service Bus, Microsoft Graph
Data	Azure SQL Database, Azure Cosmos DB, Azure Storage account
Azure Monitor	Log Analytics workspace, Application Insights, Azure Dashboard, Azure Dashboard Hub
Azure DevOps Services	Azure Pipelines (Build, test and deploy with CI/CD), Azure Repos (cloud-hosted private Git repositories), Azure Artifacts
Infrastructure as code	Azure Resource Manager (ARM), Azure Resource Manager templates (ARM templates), Bicep, Terraform (infrastructure as code software, IAC)
Configuration	Azure App Configuration (Fast, scalable parameter storage for app configuration), Azure Key Vault

Development (in general)

Cloud	Microsoft Azure Cloud Computing Services (Microsoft Azure), netlify, Azure DevOps Services, Google Cloud, Google Cloud Run	
Programming languages	Java, Kotlin, F#, C#, Python	
Frameworks	Spring Framework (Spring), Java Platform, Enterprise Edition (JEE), Jupyter Notebooks, .NET 6 (.NET Core)	
Script Languages	TypeScript, JavaScript (ECMAScript, ES)	
	Command Line Interfaces	Bash/ksh/csh/zsh/..., PowerShell (PowerShell Core), Regular expressions (RegExp, Regexp)
Databases	NoSQL	Azure Cosmos DB, Neo4j graph database (neo4j), MongoDB
	Relational databases	MySQL, Oracle Database (Oracle Database Server, Oracle RDBMS), Microsoft SQL Server (MS SQL Server), PostgreSQL (Postgres)
	Directory services	OpenLDAP (LDAP)
	Database- / query languages	GraphQL, Gremlin Graph Traversal Machine and Language (Gremlin Graph Query Language), Cypher Query Language, Java Persistence Query Language (JPQL, Jakarta Persistence Query Language), Java Persistence Criteria API, Java Named Queries (JPA Named Queries), Hibernate Query Language (HQL), SQL, PL/SQL, Transact-SQL (T-SQL), LINQ (Language Integrated Query)

Container	Kubernetes (k8s), Google Cloud Run, containerd, Docker, Argo CD, cert-manager, Crossplane, Kustomize, Traefik	
Communication	Azure Service Bus, Azure Event Grid, RabbitMQ	
Web	HTML5 (HTML), CSS, Sassy CSS (SCSS, SASS), {less} (lesscss)	
	JavaScript (ECMAScript, ES)	Lit, Web Components, Vue.js, Angular, React (reactjs), TSX (Typed JSX), Gatsby (gatsbyjs, Static Site Renderer), Next.js (NextJS), Apache Cordova, jQuery, Sencha Ext JS, JSON Web Token (JWT), Material Design, axios, Framer Motion, NgRx (reactive state for angular), Pinia, RxJS, TC39 Signals, Node.js® (node), Cloudflare Access, Cloudflare Tunnels, Jamstack, Tailwind CSS, Nginx
Markup languages	CSS, FXML, HTML (HTML), JavaScript Object Notation (JSON), JSON Schema, Unified Modeling Language (UML), Web Application Description Language (WADL), Web Services Description Language (WSDL), Extensible Markup Language (XML), YAML Ain't Markup Language (YAML), TOML (Tom's Obvious, Minimal Language), Open Graph protocol, Latex	
Development Environments	JetBrains IntelliJ IDEA, Neovim (LazyVim), Microsoft Visual Studio Code (VS Code), Oracle SQL Developer	

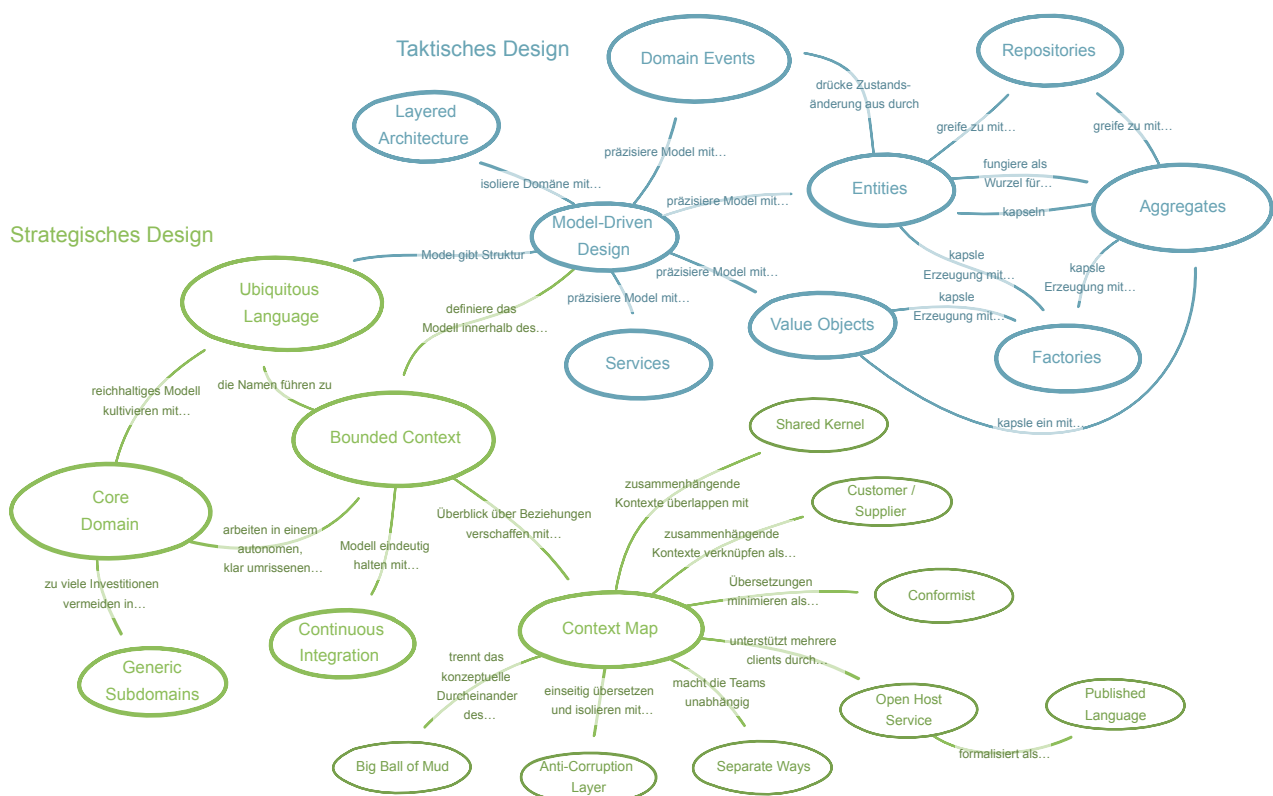
Java, Scala und JVM (in detail)

JavaSE	GraalVM, AspectJ	
	API / Libraries	Apache Commons, Apache Collections, Apache DeltaSpike, Apache Log4J (Log4J), Apache Lucene, Apache Solr™, Apache POI (Java API for Microsoft Documents), Aspose Cells, Aspose PDF, Aspose Words, Elasticsearch, Google Guava, Simple Logging Facade for Java (SLF4J), JavaFX, Swing GUI-Toolkit (Swing)
Java EE / Jakarta EE	Frameworks / API	Java Platform, Enterprise Edition (JEE), Primefaces, Hibernate, EclipseLink (Eclipse Toplink, Toplink), Spring Boot
	Management and Security Technologies	Java Authentication and Authorization Service (JAAS)
	Web Application Technologies	Java API for WebSocket, Java API for JSON Processing (JSON-P, JSR 374 Specification), Java Servlet, Java Server Faces (JSF), JavaServer Pages (JSP, Jakarta Server Pages), Expression Language (EL)
	Web Services Technologies	Java API for RESTful Web Services (JAX-RS), Java API for XML Web Services (JAX-WS), SOAP

	Enterprise Application Technologies	Contexts and Dependency Injection (CDI), Java Bean Validation (JSR 303), Enterprise JavaBeans (EJB), Java Persistence API (JPA), Java Transaction API (JTA), JavaMail API, Java Message Service (JMS), Spring Data, Spring Remote
	(Application) Server	Quarkus (Supersonic Subatomic Java), IBM WebSphere Application Server (WSA), Oracle WebLogic Server (WLS), Glassfish, WildFly Application Server, Apache TomEE (Java EE Web Profile Implementation)
Eclipse MicroProfile	Technologies	OpenAPI, MicroProfile Fault Tolerance, MicroProfile Health, JWT RBAC for MicroProfile, MicroProfile OpenTracing, MicroProfile Service Mesh
Scala	Frameworks	Play Framework, Slick (Functional Relational Mapping for Scala)

Domain Driven Design

Übersicht über die Mustersprache.



Original von Eric Evans, frei übersetzt von Bastian Nolte.

Toolset

Version management / SCM Git, Atlassian Bitbucket (Bitbucket, Stash), Liquibase (Database Refactoring), Github, GitLab

Test automation	Jest (JavaScript testing framework), Cypress (JavaScript End to End Testing Framework), JUnit, xUnit.net, TestNG (Testing Framework), Mockito, EasyMock, PowerMock, Hamcrest, DbUnit, H2 Database Engine (H2), Arquillian, Arquillian ShrinkWrap (ShrinkWrap), Arquillian Drone, Arquillian Graphene, Selenium, Selenium Grid (Grid), Karma Test Runner (Karma), Jasmine Modultest-Bibliothek (Jasmine), Protractor end-to-end test framework (Protractor), \$httpBackend, SonarQube, SoapUI, Postman, FindBugs™, Lint, Jest Snapshots (Jest Snapshot Testing), Pester (PowerShell testing framework)
Build Tools	Gradle Build Tool, Apache Maven (Maven), Jenkins (Hudson), Jenkins Pipeline, TeamCity CI/CD, npm, Gulp (gulpjs, workflow automation and enhancement), Bower (package manager), Docker, Yarn - Package Manager, JRebel, Biome (Biome linter, Biome formatter), GitHub Actions, JFrog (JFrog Platform, JFrog Artifactory), Mend Renovate (Renovate, Renovate Bot), pnpm, TSLint, Vite
Coordination / Support	Atlassian Jira Cloud (Jira), Atlassian Jira Server (Jira), Tempo für Jira, Microsoft Project, HP Application Lifecycle Management (HP ALM)
Documentation	Adobe Framemaker, Atlassian Confluence (Confluence)
Prototyping	Adobe XD, Figma
Projektarchitektur	SparxSystems Enterprise Architect (Enterprise Architect), Microsoft Visio Professional, OmniGraffle
Microsoft Office	Microsoft Word, Microsoft Excel, Microsoft PowerPoint
SAP	SAP CRM (Customer Relationship Management), SAP ERM (Enterprise Resource Planning, Finance, Human Resources, Manufacturing, Logistics, Services, Procurement), SAP CATS
Logging, monitoring and reporting	Splunk, Grafana

Design Patterns & Principles

Architectural pattern	Atomic design, Model view controller (MVC), Model view presenter (MVP), Event-driven architecture, Service-oriented architecture (SOA), Command query responsibility segregation (CQRS), Enterprise architecture, Publish–subscribe pattern, PRPL pattern (Push (or preload), Render, Pre-cache, Lazy Load)
Analysis pattern	Domain driven design (DDD), Event sourcing (ES)
Creational design pattern	Singleton pattern, Prototype pattern, Factory method, Builder pattern
Structural Design Pattern	Adapter pattern, Composite pattern, Decorator pattern, Proxy pattern, Facade pattern, Bridge pattern, Data Access Object (DAO), Data Transfer Object (DTO)
Behavioral Design Pattern	State pattern, Strategy pattern (policy pattern), Visitor pattern, Memento pattern (Token pattern), Observer pattern, Null object pattern, Circuit breaker pattern
Concurrency pattern	Double-checked locking, Thread pool pattern, Readers–writer lock
SOLID principles	Single responsibility principle, Open–closed principle (OCP), Liskov substitution principle (LSP), Interface-segregation principle (ISP), Dependency inversion principle (DIP)

Distributed computing	Saga Transaction Pattern (Saga distributed transactions), Throttling pattern, Static content hosting pattern
Sharding Pattern	Range-based sharding pattern, Vertical Sharding Pattern, Hash-based Sharding

Unix server management

Operating systems	Debian GNU/Linux (Debian), Red Hat Enterprise Linux (RHEL), Fedora, OpenBSD
Services	Apache HTTP Server, Apache Tomcat® (cluster) (Tomcat), SonarQube, Jenkins (Hudson), Squid Cache & Proxy Server (squid), Postfix (Mail Transfer Agent, MTA), Exim Internet Mailer (Exim), Cyrus IMAP, AMaViS (A MAl Virus Scanner), Clam AntiVirus (ClamAV, clamd), OpenLDAP (LDAP), MIT Kerberos-Server, free RADIUS (RADIUS, Remote Authentication Dial-In User Service), DansGuardian, ProFTPD (Highly configurable GPL-licensed FTP server software), Apache SpamAssassin, Samba File- & Print Server (smb, cifs), DHCP daemon (dhcpd), BIND Nameserver (bind, DNS Server), Network Time Protocol Daemon (ntpd), Pluggable Authentication Modules (pam, pamd), Network File System Daemon (nfs), iptables, Simple Network Management Protocol Daemon (snmpd), SNORT (Network Intrusion Detection System, Network Intrusion Prevention System, NIDS, NIPS), Nagios (The Industry Standard In IT Infrastructure Monitoring, IT Infrastructure Monitoring), Kerberos, Nginx

Professional Development

Regular further education is the foundation of in-depth expertise. Therefore, I am constantly training myself, primarily using the possibilities of the World Wide Web. You can find a list of the most recent further education courses in the following table.

Year	Type	Organiser
2026	Anthropic Academy (ongoing) For details see: https://bastian-nolte.name/en/resume/#professional-development	Skilljar (Anthropic)
2021	Apache Kafka Course 4929: Confluent Training «Apache Kafka Fundamentals»	Confluent
2021	Microsoft Azure Certification AZ-900: Microsoft Certified Azure Fundamentals https://bastian-nolte.name/link/cert/ms-az-900	Microsoft, Pearson VUE
2020	Kubernetes Certification LFS158x: Introduction to Kubernetes https://bastian-nolte.name/link/cert/lfs158x	The Linux Foundation, edX
2020	DevOps Kubernetes Camp Four-day intensive training on Kubernetes and Knative.	Software & Support Media Erkan Yanar

Year	Type	Organiser
2019	Conflict Management and Constructive Conflict Resolution	oose Innovative Informatik Kim Duggen
2019	Communication & Moderation Techniques in IT	oose Innovative Informatik Tina Busch
2019	Certified iSAQB-Modul «Advanced Level DDD» Domain-Driven Design at the Software Architecture Camp	Software & Support Media Matthias Bohlen
2019	Certified LeSS Basic Training	Valtech GmbH Nils Bernert
2018	w-jax For details see: https://bastian-nolte.name/en/resume/#professional-development	Software & Support Media
2018	Jax Agile Day 2018 For details see: https://bastian-nolte.name/en/resume/#professional-development	Software & Support Media
2018	JavaScript- & AngularDays For details see: https://bastian-nolte.name/en/resume/#professional-development	Software & Support Media

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