

# Curriculum Vitae of Bastian Nolte

Expert IT Business Consultant & Coach  
Software Architect and Full Stack Developer



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Professional Experience 24 years of experience in the IT sector, of which about 11 years as a business consultant and 4 as a coach. I have worked in (technical) project management and architectural roles for about 13 years.

Nationality Germany

Applicable CH-LI  
(Switzerland, Liechtenstein)

Preferred region of work Switzerland  
(or remote)

Sector Experience Insurance, Information Technology, Automotive, Service Provider, IT Service Provider, Public Service, Educational Institutions, Telecommunications, IT Security

Languages German (mother tongue), English

Awards Innovation Award Public Private Partnership 2009 (PPP) for the interdisciplinary use of New Media

Leisure activities mountain hiking, scuba diving, kayaking

Latest trainings	2021	Apache Kafka Course 4929: Confluent Training «Apache Kafka Fundamentals»	Confluent
	2021	Microsoft Azure Certification AZ-900: Microsoft Certified Azure Fundamentals	Microsoft, Pearson VUE. . .
	2020	Kubernetes Certification LFS158x: Introduction to Kubernetes	The Linux Foundation, e. . .
	2020	DevOps Kubernetes Camp Four-day intensive training on Kubernetes and Knative.	Software & Support Medi. . .
	2019	Communication & Moderation Techniques in IT	oose Innovative Informa. . .
	2019	Certified iSAQB-Modul «Advanced Level DDD» Domain-Driven Design at the Software Architecture Camp	Software & Support Medi. . .

Further training and details at <https://www.bastian-nolte.name/en/#professional-development>

**Information**

This Curriculum Vitae is a short version.

It is available in further versions:

The latest version of this document can be downloaded from the web address

<https://www.bastian-nolte.name/downloads/bastian-nolte-cv-short.en.pdf>.

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## Project excerpts

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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.

### Azure Data Aggregation & Curation Solution

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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	Since July 2021
Activities performed	<ul style="list-style-type: none"> <li>- Planning of the entire solution</li> <li>- Elaboration of a solution architecture</li> <li>- Building source code management as a monorepo with Yarn Workspaces</li> <li>- Azure Enterprise Integration Platform as a Service</li> <li>- Identity and access management with Azure Active Directory</li> <li>- Implementation of a web application with Vue.js, Azure Static Web Apps and Azure Function Apps</li> <li>- Azure Function Apps for scraping, aggregation, curation and sending to Slack channels</li> <li>- Azure Cosmos DB for data storage</li> <li>- Propagation of business events via Azure Event Grid (event-driven architecture)</li> <li>- Slack App, Slack Block Kit for messaging</li> <li>- Provisioning infrastructure via Azure Resource Manager and Bicep</li> <li>- Continuous Integration and Continuous Deployment with Azure DevOps Services</li> </ul>

Details: <https://www.bastian-nolte.name/en/#project-8eb9aa94-e700-46ff-9a35-b1e8720c9a56>

### A platform for brokering tickets of Swiss attractions

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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.

<b>Role</b>	<b>Multifunctional role (consulting, teaching, hands-on)</b>
<b>Period</b>	September 2019 - December 2020
<b>Activities performed</b>	<ul style="list-style-type: none"> <li>- Consulting</li> <li>- Training</li> <li>- Introduction CI/CD with Azure DevOps</li> <li>- Introduction Azure Cloud Computing</li> <li>- Hands-on development of the MMP</li> </ul>

Details: <https://www.bastian-nolte.name/en/#project-07e564eb-4a6f-4dad-b52f-4c42098fde19>

## CSS Insurance

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**(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

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### **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.

<b>Role</b>	<b>Consultant and trainer for excellence and innovation topics</b>
<b>Period</b>	October 2018 - June 2020

- Activities performed**
- 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

Details: <https://www.bastian-nolte.name/en/#project-85110d3a-4120-4f09-ac1f-cb2a17899cec>

### More projects at the internet on my digital Curriculum Vitae at

<https://www.bastian-nolte.name/en/#project-a11a13d8-8990-43de-93b7-038baaa9bb18>.

## Soft skills

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

## Know-how

The following chapters will give you an overview of my IT skills

You can find an additional representation as a graph on my digital Curriculum Vitae at <https://www.bastian-nolte.name/en/#know-how>.

## Development (in general)

<b>Cloud</b>	Microsoft Azure Cloud Computing Services (Microsoft Azure), Kubernetes (k8s), netlify, Azure DevOps Services	
<b>Programming languages</b>	F#, C#, Kotlin, Java, Python	
<b>Frameworks</b>	.NET 6 (.NET Core), Spring Framework (Spring), Java Platform, Enterprise Edition (JEE)	
<b>Script Languages</b>	TypeScript, JavaScript (ECMAScript, ES)	
	Command Line Interfaces	Bash/ksh/csh/zsh/..., PowerShell (PowerShell Core), Regular expressions (RegExp, Regex)
<b>Databases</b>	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
	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)
<b>Container</b>		containerd, Docker
<b>Communication</b>		Azure Service Bus, Azure Event Grid, RabbitMQ
<b>Web</b>		HTML5 (HTML), CSS, Sassy CSS (SCSS, SASS), {less} (lesscss)
	JavaScript (ECMAScript, ES)	Vue.js, Vuetify (Material Design Component Framework), Angular, React (reactjs), TSX (Typed JSX), Gatsby (gatsbyjs, Static Site Renderer), Apache Cordova, jQuery, Sencha Ext JS, JSON Web Token (JWT), Material Design, Node.js® (node)
<b>Markup languages</b>		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
<b>Development Environments</b>		JetBrains IntelliJ IDEA, Microsoft Visual Studio Code (VS Code)

## Microsoft Azure

### Microsoft Cloud Adoption Framework für Azure

#### Azure Enterprise Integration Platform as a Service

<b>Identity and access management</b>	Microsoft identity platform, Microsoft Entra (Secure access for a connected world), Azure Active Directory (Azure AD), Azure Active Directory B2C (Azure AD B2C), Microsoft Authentication Library (MSAL)
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#### Azure API Management

<b>Azure App Service</b>	Azure Web Apps, Azure Static Web Apps, Azure Function Apps, Azure Durable Function Apps, Azure Container Apps
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<b>Container</b>	Azure Container Instances (ACI), Azure Container Registry (ACR, Docker registry service)
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<b>Integration</b>	Azure Event Grid, Azure Service Bus, Microsoft Graph
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<b>Data</b>	Azure SQL Database, Azure Cosmos DB, Azure Storage account
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<b>Azure Monitor</b>	Log Analytics workspace, Application Insights
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<b>Azure DevOps Services</b>	Azure Pipelines (Build, test and deploy with CI/CD), Azure Repos (cloud-hosted private Git repositories), Azure Artifacts
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<b>Infrastructure as code</b>	Azure Resource Manager (ARM), Azure Resource Manager templates (ARM templates), Bicep, Terraform (infrastructure as code software, IAC)
<b>Configuration</b>	Azure App Configuration (Fast, scalable parameter storage for app configuration), Azure Key Vault

## Java, Scala und JVM (in detail)

<b>JavaSE</b>	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)
<b>Java EE / Jakarta EE</b>	Frameworks / API	Java Platform, Enterprise Edition (JEE), Primefaces, Hibernate, EclipseLink (Eclipse Toplink, Toplink)
	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)
	(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)
<b>Eclipse MicroProfile</b>	Technologies	OpenAPI, MicroProfile Fault Tolerance, MicroProfile Health, JWT RBAC for MicroProfile, MicroProfile OpenTracing, MicroProfile Service Mesh
<b>Scala</b>	Frameworks	Play Framework, Slick (Functional Relational Mapping for Scala)

## Toolset

<b>Version management / SCM</b>	Git, Atlassian Bitbucket (Bitbucket, Stash), Liquibase (Database Refactoring)
<b>Test automation</b>	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
<b>Build Tools</b>	Apache Maven (Maven), Gradle Build Tool, Jenkins (Hudson), Jenkins Pipeline, TeamCity CI/CD, npm, Gulp (gulpjs, workflow automation and enhancement), Bower (package manager), Docker, Yarn - Package Manager, JRebel
<b>Coordination / Support</b>	Atlassian Jira Cloud (Jira), Atlassian Jira Server (Jira), Tempo für Jira, Microsoft Project, HP Application Lifecycle Management (HP ALM)
<b>Documentation</b>	Adobe Framemaker, Atlassian Confluence (Confluence)
<b>Prototyping</b>	Adobe XD, Figma
<b>Projektarchitektur</b>	SparxSystems Enterprise Architect (Enterprise Architect), Microsoft Visio Professional, OmniGraffle
<b>Microsoft Office</b>	Microsoft Word, Microsoft Excel, Microsoft PowerPoint
<b>SAP</b>	SAP CRM (Customer Relationship Management), SAP ERM (Enterprise Resource Planning, Finance, Human Resources, Manufacturing, Logistics, Services, Procurement), SAP CATS
<b>Logging, monitoring and reporting</b>	Splunk

## Design Patterns & Principles

<b>Architectural pattern</b>	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)
<b>Analysis pattern</b>	Domain driven design (DDD), Event sourcing (ES)
<b>Creational design pattern</b>	Singleton pattern, Prototype pattern, Factory method, Builder pattern
<b>Structural Design Pattern</b>	Adapter pattern, Composite pattern, Decorator pattern, Proxy pattern, Facade pattern, Bridge pattern, Data Access Object (DAO), Data Transfer Object (DTO)
<b>Behavioral Design Pattern</b>	State pattern, Strategy pattern (policy pattern), Visitor pattern, Memento pattern (Token pattern), Observer pattern, Null object pattern, Circuit breaker pattern
<b>Concurrency pattern</b>	Double-checked locking, Thread pool pattern, Readers–writer lock
<b>SOLID principles</b>	Single responsibility principle, Open–closed principle (OCP), Liskov substitution principle (LSP), Interface-segregation principle (ISP), Dependency inversion principle (DIP)
<b>Distributed computing</b>	Saga Transaction Pattern (Saga distributed transactions), Throttling pattern, Static content hosting pattern

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<b>Sharding Pattern</b>	Range-based sharding pattern, Vertical Sharding Pattern, Hash-based Sharding
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## Unix server management

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<b>Operating systems</b>	Debian GNU/Linux (Debian), Red Hat Enterprise Linux (RHEL), Fedora, OpenBSD
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<b>Services</b>	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 MAil 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)
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## Usage of this Curriculum Vitae

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