

As an experienced cloud architect and software engineer, I support teams in building performant, highly scalable and resilient applications. I love working with skilled people, adopting the latest technologies and modern practices. In 20 years of professional full-stack development and systems design, I always aimed at the highest productivity and quality of code.

## Technologies and Practices

<b>Kotlin/Java</b>	Spring Boot, Spring Data, JPA, Hibernate, JUnit, AssertJ, Kotest, MockK, jib, Gradle
<b>AWS</b>	S3, Lambda, EC2, ECS, Fargate, SQS, SNS, DynamoDB, RDS, Aurora, AppSync, API Gateway, Amplify, CodePipeline, CDK, CloudFormation, SAM, CloudWatch
<b>Google Cloud (GCP)</b>	GKE (fundamentals), Google Cloud Functions, Firestore, Firebase
<b>Container orchestration</b>	Docker, Kubernetes, OpenShift, CloudFoundry
<b>Messaging</b>	Kafka, RabbitMQ
<b>API</b>	REST, OpenAPI, GraphQL, gRPC, Protocol Buffers
<b>Database</b>	PostgreSQL, MySQL, MongoDB, Redis, Oracle, SQLite, Liquibase, Flyway
<b>TypeScript/JavaScript</b>	Node.js, Vite, Jest, Express, Netlify
<b>Frontend</b>	React, Svelte, Astro, Redux, Playwright, Cypress, Flutter, HTML, CSS
<b>IoT</b>	MQTT, Mosquitto, Paho, Web of Things (WoT)
<b>Architecture</b>	Microservices, domain-driven design, event sourcing, CQRS, stream processing
<b>Software craftsmanship</b>	Clean code, SOLID, hexagonal architecture, design patterns, TDD, BDD
<b>Release automation</b>	GitHub Actions, GitLab CI/CD, Jenkins, Terraform
<b>Observability</b>	Datadog, Prometheus, Grafana, Kibana
<b>Languages/scripting</b>	Kotlin, Java, Python, TypeScript, JavaScript, Dart, Lua, Bash, PowerShell
<b>Agile</b>	Scrum, Kanban, pair-programming, trunk-based development
<b>Tools</b>	Git, GitHub, GitLab, BitBucket, IntelliJ IDEA, VS Code, Figma, Jira, Confluence

## Continuing Education

- **Meetups and conferences** multiple events each week
- **Podcasts** on software engineering
- **Workshops and video tutorials** on new topics
- **Books, articles** on latest IT developments and best practices

## Languages

<b>German</b>	native
<b>English</b>	business fluent
<b>French, Italian</b>	proficient
<b>Spanish, Russian</b>	intermediate

## Client Projects

2022

### Digital farming: cloud architecture

Industry: digital farming

Process: Scrum

- Assessed issues in architecture, code, security and processes, supported project management
- Fully re-designed the whole system to be event-driven and serverless, created transition plan
- Built a full-stack asynchronous PoC for new architecture, evaluated future technologies/services to adopt
- Implemented a highly parallelized data processing pipeline
- Trained team members in AWS services and modern engineering paradigms

*AWS, CDK, Lambda, DynamoDB, AppSync, Amplify, GraphQL, Python, Pandas, React, TypeScript, Vite, pnpm, SNS, SQS, ECS, Docker, RDS, PostgreSQL, R, Java, Spring Boot, REST, BitBucket, Confluence, Teams*

2021

### E-commerce platform: warehouse microservices

Industry: e-commerce, logistics

Process: Scrum, trunk-based development

- Collected requirements for a core service to be consumed by multiple teams, designed its REST API
- Implemented service functionality in Kotlin / Spring Boot, created project configuration
- Optimized the build setup and code quality for shorter iteration cycles
- Educated team members in idiomatic Kotlin, BDD using Cucumber and clean code
- Conducted code and design reviews of React frontend

*Kotlin, Spring Boot, REST, OpenAPI, AWS, Kubernetes, Docker, Nakadi, Kafka, CQRS, PostgreSQL, Jooq, R2DBC, Cucumber, TypeScript, React, GitHub, Google Workplace*

2020

### Vehicle IoT platform prototype

Industry: automotive, RnD

Process: Scrum

- Re-designed and implemented IoT bridge in Python
- Developed features of IoT gateway in Go
- Designed and implemented pairing between bridge and gateway using gRPC/Protobuf
- Collected requirements of system security and defined security model

*Docker, Python, Go, MQTT, Mosquitto, Paho, Web of Things (WoT), gRPC, Protocol Buffers (Protobuf), Raspberry Pi (ARM32, ARM64), GitLab*

2019 – 2020

### Startup funding application platform

Industry: e-government

Process: Scrum

- Created AWS architecture for new business domains
- Supported the project management, defined user stories, introduced post-mortem process
- Re-engineered single sign-on solution
- Modeled domain and database for multi-tenant identity management
- Led the backend team: conducted code/design reviews, coached junior developers

*AWS, Lambda, SQS, SNS, ECS, Kubernetes, Docker, OAuth2, TypeScript, Node.js, Express, Mongoose, MongoDB, GitLab*

2019

## **Vehicle and driver management system**

*Industry: logistics*

*Process: Scrum, pair-programming*

- Developed and operated features in REST microservices using Kotlin / Spring Boot
- Performed large refactoring of React web microfrontends, assessed vulnerabilities
- Set up AWS cloud infrastructure for new features, re-configured serverless cloud database

*AWS, RDS, Aurora Serverless, Fargate, Docker, CloudFormation, CodeBuild, Kotlin, Spring Boot, AssertJ, React, Redux, TypeScript, Jest, Karma, Cypress, Kafka, Flyway, Datadog, Gradle, AWS Session Manager, BitBucket, Jira, Confluence*

2018

## **In-car product purchasing platform (ordering, payment, licensing)**

*Industry: automotive*

*Process: Scrum*

- Designed, implemented and operated Java Spring Boot REST microservices on CloudFoundry PaaS
- Improved the code and design quality through reviews and large refactorings, taught clean code principles
- Enhanced developer productivity by building a local Docker setup of the application stack
- Produced PoC solutions to adopt AWS services and cloud architecture concepts, designed a data pipeline leveraging CQRS

*AWS, SQS, SNS, RDS Aurora, REST API, CloudFoundry, Docker, Java, Spring Boot, Eureka, Hystrix, Ribbon, Feign, Zuul, Spring Cloud Netflix, JUnit 5, AssertJ, Sonar, Redis, PostgreSQL, Liquibase, Gradle, Jenkins Pipeline DSL, Logstash, Kibana, Greylog, Prometheus, BitBucket, Jira, Confluence*

2016 – 2017

## **E-commerce platform: REST microservices**

*Industry: e-commerce*

*Process: Scrum*

- Designed, developed and operated containerized Java microservices for order processing
- Transformed legacy Java modules into Spring Boot REST APIs using the strangler pattern
- Re-architected and implemented automated unit, integration and acceptance tests using BDD
- Set up automated build and release CI/CD pipelines, allowing unsupervised deployment into production
- Supported the design of an SSO solution

*Docker, Mesos, Marathon, Java, Spring Boot, REST API, Spring Batch, JPA, Hibernate, Retrofit, Hystrix, Zuul, reactive streams, JUnit, Google Truth, Cucumber, Spock, BDD, Rest-assured, Jenkins pipeline DSL, MongoDB, Oracle, Kibana, Grafana, BitBucket, Jira, Confluence*

## Former Client Projects

- 2015 **Insurance statistics evaluation web application**  
*Java EE full-stack design and development, project management*
- 2013 – **E-commerce platform: logistics components**  
2014 *Java Spring backend and Oracle SQL database development*
- 2012 – **Document template management system**  
2013 *Java EE backend architecture and development, JCR data layer*
- 2011 **International loyalty program**  
*Java lead developer, JSF solution patterns, quality governance*
- 2010 – **Healthcare profitability check web application**  
2011 *Java full-stack architecture and development*
- 2010 **Insurance dialog marketing administration web application**  
*Java full-stack development*
- 2008 – **City childcare institution management system**  
2009 *Java J2EE full-stack development, application stack migration*
- 2002 – **Residents' data platform for authorities**  
2004 *Java backend development, XML data format conception, PKI setup*

## Side Projects

### Email Processor

Server-side email filtering and processing (AWS)

- Created Docker image for existing application
- Built automated asynchronous data pipeline
- Configured secret management
- Set up logging/monitoring

*AWS, ECS, Docker, Lambda, S3, SNS, SQS, SSM, KMS, CloudWatch, CloudFormation, Lua, IMAP*

### Java logging library for AWS Lambda

*Java, AWS SDK, Lambda, CloudWatch, SLF4J, Logback, Gradle*

### Web CV

Generator of web-based CVs from structured data and markup, tailored individually for various clients

*Astro, React, TypeScript, Vite, CSS, Vitest, Puppeteer, Netlify*

## PoC Projects

### GCP/Firebase serverless REST application

*TypeScript, Node.js, Express, GCP, Google Cloud functions, Firestore, Firebase, event sourcing*

### Svelte SPA

*Svelte, JavaScript, Netlify*

### Flutter mobile app

*Flutter, Dart, Android SDK, Firebase, Firestore*