

# GERRIT FREISE

Experienced Solution Architect and Senior Software Developer



## PERSONAL DATA

|                    |                                                                                      |
|--------------------|--------------------------------------------------------------------------------------|
| Nationality        | German                                                                               |
| Languages          | German (native), English                                                             |
| Year of Birth      | 1987                                                                                 |
| Availability       | By arrangement                                                                       |
| Rate               | By arrangement                                                                       |
| Preferred Location | Frankfurt a.M., Darmstadt                                                            |
| Contact            | 06078 7837884 · <a href="mailto:gerrit.freise@crevio.de">gerrit.freise@crevio.de</a> |

## POSITIONS

Solution Architect · Senior Software Developer/Lead Developer · Technical Project Manager & Team Lead · Agile Coach & Scrum Master

## MY CONTRIBUTION TO YOUR SUCCESS

Over **15 years** as *Software Architect & Lead Developer* in enterprise environments.

I am your enabler for the *Cloud* – certified as **AWS Solutions Architect**.

I lead project teams (e.g., as **SAFe Solution Architect & CSP-SM**) reliably to success.

I combine the **M.Sc. Computer Science** with deep **Java & Microservices expertise**.

I master new domains (e.g., KRITIS, Logistics) **quickly and confidently**.

I clarify *complex architectures* and ask **the right questions at the right time**.

I manage stakeholders to **align technical needs with business goals**.

## SKILLS

### Field of Expertise: Software Development & Architecture, Solution Architecture

Backend development with Java (including Java EE/Jakarta EE), Spring Boot, and OSGi

Experienced in designing, building, and maintaining microservice architectures

Frontend development with Eclipse RCP, SWT, Swing, JavaScript, TypeScript, React.js, and Angular

Expertise in interface technologies such as REST, SOAP, RPC, and RMI

Experience with messaging systems such as TIBCO Rendezvous, TIBCO EMS (JMS), and Apache Kafka

Familiar with persistence technologies such as Oracle DB, Oracle Coherence, MySQL, Microsoft SQL Server, and Hazelcast

DevOps engineering with GitLab CI, Ansible, and the Ansible Automation Platform (Ansible Tower / AWX)

Infrastructure as Code with Terraform/OpenTofu and Pulumi

AI-assisted, agentic software development (Agentic Coding) with Claude (Claude Code) and Google Gemini CLI

### Field of Expertise: Lead and Solution Architect, Project Management & Team Leadership

Many years of experience as a SAFe Solution Architect/Engineer (SAFe SAE)

Certified Professional for Software Architecture – Foundation Level (CPSA-F)

AWS Certified Solutions Architect – Associate

Design and expansion of scalable software solutions

Integration of software solutions into existing IT landscapes

Selection of new technologies and coordination with external projects and applications

Design of sophisticated cloud architectures and operation of applications in the cloud

Building new development teams and further development of existing teams  
Experience in technical project management in challenging customer environments  
Conducting team, employee, and interview discussions

### Field of Expertise: Agile Methods & Agile Coaching

Highest ScrumMaster certification from the Scrum Alliance (CSP-SM)  
Certified Product Owner (CSPO)  
Experience in coaching agile methods such as Scrum, Kanban, and SAFe  
Active support of agile transformations  
Experienced Scrum Master  
Leading and moderating workshops

### Industry Knowledge

Railway Operations, Telecommunications, Logistics, Automotive, Public Sector

### Methods

Design and implement software and solution architectures  
Establish and lead project teams  
Facilitate agile methodologies and establish agile frameworks  
Implement customer requirements effectively  
Integrate software solutions into existing IT landscapes  
Conduct fundamental troubleshooting of IT systems  
Design fault-tolerant systems  
Develop mature client-server architectures

### Tools and Technologies

|                          |                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Languages & Frameworks   | Java, J2EE / Jakarta EE, Spring Boot, Eclipse RCP, SWT, Swing, Python                                                                                                                           |
| Web Technologies         | React.js, Angular, Node.js, NPM, JavaScript, TypeScript, TanStack Query, Vite, HTML, CSS, XML, PHP, JSP, JSF, Apache Web Server, NGINX, Tomcat, JBoss, SSL/TLS, OAuth2, PrimeFaces              |
| Container Technologies   | Docker, Kubernetes, Podman                                                                                                                                                                      |
| Cloud Technologies       | AWS, Amazon ECS, Amazon EKS, Amazon EC2, Amazon S3, Amazon EFS, Amazon EBS, Amazon RDS, AWS CDK, AWS Lambda, AWS IAM                                                                            |
| Databases & Persistence  | HQL, SQL & PL/SQL, Hibernate, Oracle DB, MySQL, Microsoft SQL Server, PostgreSQL                                                                                                                |
| In-Memory-Grids          | Oracle Coherence, Hazelcast                                                                                                                                                                     |
| Messaging                | TIBCO Rendezvous, TIBCO EMS, JMS, Apache Kafka, Protobuf, RabbitMQ                                                                                                                              |
| Interface Technologies   | SOAP, REST, OpenAPI, RMI, RPC, gRPC, AMQP                                                                                                                                                       |
| Office & Collaboration   | Microsoft PowerPoint, Word, Excel, Outlook, SharePoint                                                                                                                                          |
| ALM & Project Management | HP ALM/Quality Center, Atlassian Jira & Confluence, Ariba                                                                                                                                       |
| Test/Test Automation     | Unit-Tests, Integration-Tests, ArchUnit, Jubula, Eggplant, Selenium, Playwright                                                                                                                 |
| Version Control          | Git, GitLab, GitHub, Bitbucket                                                                                                                                                                  |
| Operating Systems        | Linux/Unix [RedHat, CentOS, Debian, Ubuntu, Alpine, SUSE Linux Enterprise Server/SLES], Windows                                                                                                 |
| DevOps                   | Ansible, Ansible Automation Platform, GitLab CI, Jenkins, GitHub Actions, Maven, Gradle, Ant, Artifactory, Nexus, Terraform, OpenTofu, Pulumi, SonarQube, WhiteSource/Mend, Gitleaks, TeamScale |
| Logging/Monitoring       | Log4j, SLF4J, Logback, Micrometer, Prometheus, Grafana, Loki, InfluxDB, ELK-Stack [Elasticsearch, Logstash, Kibana], Icinga, AWS CloudWatch                                                     |
| Development Environments | IntelliJ, Eclipse, Visual Studio Code                                                                                                                                                           |
| Architecture & Modeling  | Enterprise Architect, PlantUML, arc42, ADRs [Architecture Decision Records]                                                                                                                     |
| AI-Assisted Development  | Agentic Coding, Claude / Claude Code, Google Gemini CLI                                                                                                                                         |

## ■ CERTIFICATES

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04/2025 AWS Certified Solutions Architect - Associate  
02/2025 AWS Certified Cloud Practitioner  
01/2025 CPSA-F (Certified Professional for Software Architecture - Foundation Level) - iSAQB®  
03/2019 CSP-SM (Certified Scrum Professional - ScrumMaster) - Scrum Alliance  
08/2018 A-CSM (Advanced Certified ScrumMaster) - Scrum Alliance  
03/2018 CSM (Certified ScrumMaster) - Scrum Alliance  
12/2017 Certified Software Engineer for RCS (Rail Control System, Schweizerische Bundesbahn SBB)  
06/2017 CSPO (Certified Scrum Product Owner) - Scrum Alliance  
05/2014 IAF Practitioner's Level  
01/2013 Sophora CMS (SOCDT, SOCAD, SOCDD, SOCSD, SOCAR, SOCCD) - subshell

## ■ WORK EXPERIENCE

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01/2021 - today **CREVIO GmbH** - Managing Director  
04/2018 - today **Freelancer**  
06/2016 - 06/2021 **mtrail Deutschland GmbH** - Senior Software Architect  
02/2013 - 05/2016 **Capgemini Deutschland GmbH** - Software Engineer Lead  
10/2010 - 01/2013 **K.IM, Darmstadt** - Software Developer

## ■ EDUCATION

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10/2010 - 03/2013 *Master of Science in Computer Science*  
Technical University of Darmstadt  
*Specializations: Software Engineering, Trusted Systems, Net Centric Systems, Data and Knowledge Engineering, IT Management*  
*Final Grade: 1.89*  
10/2006 - 09/2010 *Bachelor of Science in Computer Science*  
Philipps-Universität Marburg  
*Specializations: Software Engineering, Parallel Programming, Business Administration*  
*Final Grade: 2.1*

## PROJECTS

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### Development of interface software for the integration of heterogeneous systems

|                    |                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------|
| Duration, Location | 08/2025 – today, Hamburg                                                                     |
| Roles              | Senior Software Developer / Software Architect                                               |
| Client, Industry   | Public Administration – Central IT Service Provider of the Federal Government, Public Sector |
| Team Size          | 50                                                                                           |

Design and implementation of interface software to integrate heterogeneous legacy systems. Development of robust backend components using Java 21, REST interfaces, and Oracle database integration. Ensuring data consistency, scalability, and code quality through modern testing and build toolchains.

#### Tasks

- Software development with Java 17 using Jakarta EE and Spring Boot 3
- Upgrade to Spring Boot 3.5 for current features and security standards
- Transition of the application to Java 21
- Application server migration to JBoss 8.1
- Co-architecting backend integration of heterogeneous legacy systems
- Integration of Elasticsearch to accelerate complex search queries
- Design and implementation of high-performance REST APIs
- Established structured application logging with Log4j
- Maintenance and evolution of PrimeFaces legacy web interfaces
- Migration of the web interfaces from PrimeFaces 13 to PrimeFaces 14
- Design of a modern React stack and integration into the legacy ecosystem
- Data persistence using SQL and PL/SQL on Oracle Database
- Ensuring code quality via tests and static analysis (Teamscale)
- Version control and collaborative development with Git
- Build toolchain automation using Jenkins and Maven

#### Tools

Java 21, Java EE/Jakarta EE, EJB, Spring Boot 3, JBoss 8.1, JUnit, JSF, PrimeFaces, HTML, XHTML, CSS, JavaScript, TypeScript, React.js, TanStack Query, Log4j, RESTful, OpenAPI, JSON, Hibernate, JPA, SQL & PL/SQL, Oracle DB, Unit-Tests, Integration-Tests, Teamscale, arc42, Git, Jenkins, Maven, Nexus, IntelliJ, Atlassian Jira, Confluence, Playwright

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### Cloud migration and architectural advancement of a rail dispatching system (critical infrastructure)

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|--------------------|------------------------------------------------------------------|
| Duration, Location | 09/2021 – 07/2025, Frankfurt a.M.                                |
| Roles              | SAFe Solution Architect/Engineer (SAFe SAE) / Software Architect |
| Client, Industry   | large German rail infrastructure operator, Transport/Logistics   |
| Team Size          | 80 / 5 implementation teams                                      |

In the second phase of the project, the existing dispatching system was gradually migrated to the AWS cloud. The focus was not only on the technical migration but also on the architectural modernization of the application. Key components included infrastructure services, databases, and domain-critical modules.

The system was upgraded to Java 17 and 21, and the architecture was refactored into a more modular structure. Additionally, a comprehensive performance monitoring and observability concept was introduced. A major objective was to ensure operational reliability in the context of critical infrastructure (KRITIS) and to enable the successful go-live in June 2025.

The project remained embedded in a larger program with over 11 subprojects. As technical lead within the project management team, I was responsible for architectural decisions, coordination of technical teams, and ensuring compliance with non-functional requirements.

#### Tasks

- Responsible for migration to Java 17 and Java 21
- Migration of the application to AWS Cloud incl. Infrastructure as Code (IaC)
- Evaluation of TIBCO Rendezvous replacement with an alternative solution

- Development of PoCs and technical feasibility studies
- Performance monitoring and evaluation of the application and Oracle DB
- Ensuring non-functional requirements with a focus on performance
- Planning and execution of load and performance tests
- Architecture ownership of the overall system and technical design
- Contributing to network architecture and definition of firewall rules within AWS
- Design and development of individual microservices
- Implementation of event-driven architecture principles
- Documentation of the architecture and creation of the operations manual
- Support for migration from Bitbucket/Jenkins to GitLab and GitLab-CI pipelines
- Contributing to the Ansible stack for deployment automation
- Implementation into the program's centralized monitoring stack
- Ensuring code quality and security using established tools
- Responsibility for TLS/SSL encryption and certificate management across the system architecture
- Release management responsibility and compilation of overall releases
- Support of the overall program go-live in June 2025
- Part of the three-member project leadership team with technical authority (SAE)
- Prioritization of technical topics within PI planning sessions
- Leading a specialized team to efficiently implement technical tasks
- Coordination and collaboration with other projects in the program
- Alignment of technical and functional interfaces (internal and external)
- Assessment of technical incidents and definition of corrective measures

## Tools

Java 17, Java 21, Spring Boot (3.x, incl. Spring Data, Spring Security, etc.), Eclipse RCP/-SWT, Swing, JUnit, Eclipse Equinox/OSGi, Kotlin, React.js, Node.js, NPM, JavaScript, TypeScript, HTML, CSS, Python, Apache Web Server, NGINX, Tomcat, Docker, Kubernetes, AWS, Amazon ECS, Amazon EKS, Amazon EC2, Amazon S3, Amazon EFS, Amazon EBS, Amazon RDS, AWS IAM, AWS CDK, AWS Lambda, HQL, SQL & PL/SQL, Hibernate, JPA, Flyway, Oracle DB, Oracle Coherence, H2, PostgreSQL, Hazelcast, TIBCO Rendezvous, TIBCO EMS, JMS, Apache Kafka, Protobuf, RabbitMQ, AMQP, SOAP, REST, gRPC, OAuth2, TLS, SSL, XML, JSON, Mockito, Unit-Tests, Integration-Tests, Jubula, Eggplant, Git, GitLab, Bitbucket, Linux/Unix [RedHat, CentOS], Windows, Ansible, Ansible Automation Platform / Ansible Tower / AWX, GitLab CI, Jenkins, Maven, Gradle, Artifactory, Infrastructure as Code (IaC), Pulumi, SonarQube, WhiteSource/Mend, Gitleaks, Log4j, Micrometer, Prometheus, Grafana, InfluxDB, ELK-Stack [Elasticsearch, Logstash, Kibana], Icinga, AWS CloudWatch, IntelliJ, Eclipse, Oracle SQL Developer, Microsoft PowerPoint, Word, Excel, Outlook, SharePoint, HP ALM/Quality Center, Atlassian Jira, Confluence, Ariba, Enterprise Architect, AsciiDoc, SAE, Scrum

## Initial adaptation and further development of a rail dispatching system (critical infrastructure)

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Duration, Location | 06/2016 – 09/2021, Frankfurt a.M.                                                                                                  |
| Roles              | Software Developer / Software Architect / Fullstack Developer / Scrum Master in SAE / Deputy Technical Project Manager (2016–2017) |
| Client, Industry   | large German rail infrastructure operator, Transport/Logistics                                                                     |
| Team Size          | 80 / 5 implementation teams                                                                                                        |

In the first phase of the project, a dispatching system from a Swiss rail infrastructure operator was adopted and gradually adapted to the requirements of German railway operations.

In addition to integration into existing system landscapes, the focus was on developing new components, introducing a web-based user interface, and establishing agile processes based on Scrum and SAE.

Within the project, I assumed multiple roles: Fullstack Developer, Software Architect, and Scrum Master. I also contributed to the technical project management. My operational responsibilities included application development, test management, quality assurance, and supporting control centers during the rollout of new features.

## Tasks

- Development with Java 8 and Java 11 using Spring Boot and React.js

- Use of Eclipse RCP/-SWT and Equinox/OSGi for UI and component development
- Development of a web interface for visualizing key details for dispatchers
- Design of software components in coordination with the lead architect
- Documentation of technical subcomponents and architectural details
- Integration into distributed messaging with TIBCO Rendezvous and TIBCO EMS (JMS)
- Data persistence with Oracle DB, Oracle Coherence, and Hibernate
- Creation and maintenance of SQL and PL/SQL database scripts
- Test-driven development (TDD) with Mockito, unit and integration testing
- Ensuring code quality standards using SonarQube
- Development of microservices for initial provisioning of third-party systems
- Support for frontend and interface test automation using common tools (e.g. Jubula)
- Scrum Master of multiple teams and Agile Leader in a SAFe project context
- Effort estimation for non-standard requirements
- Onboarding and mentoring of new team members
- Deputy technical project lead from 2016 to 2017

## Tools

Java 8, Java 11, Spring Boot (incl. Spring Data, Spring Security, etc.), Eclipse RCP/-SWT, Swing, Eclipse Equinox/OSGi, JUnit, Kotlin, React.js, Node.js, NPM, JavaScript, HTML, CSS, Python, Apache Web Server, Tomcat, HQL, SQL & PL/SQL, Hibernate, JPA, Flyway, Oracle DB, Oracle Coherence, H2, Hazelcast, TIBCO Rendezvous, TIBCO EMS, JMS, Protobuf, SOAP, REST, gRPC, XML, JSON, Mockito, Unit-Tests, Integration-Tests, Jubula, Eggplant, Git, Bitbucket, Linux/Unix [RedHat, CentOS], Windows, Ansible, Ansible Automation Platform / Ansible Tower / AWX, Jenkins, Maven, Nexus, Artifactory, SonarQube, Log4j, Micrometer, Grafana, InfluxDB, Eclipse, Oracle SQL Developer, Microsoft PowerPoint, Word, Excel, Outlook, SharePoint, HP ALM/Quality Center, Atlassian Jira, Confluence, Enterprise Architect, AsciiDoc, SAFe, Scrum

## Development of a portal, backend, and app for operating parcel shops

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|--------------------|-----------------------------------------------------------------------|
| Duration, Location | 09/2014 – 05/2016, Frankfurt a.M.                                     |
| Roles              | Software Developer / Software Architect / Fullstack Developer         |
| Client, Industry   | large German parcel/logistics company, European department, Logistics |
| Team Size          | 12 (Germany: 11, Poland: 1)                                           |

Kiosk and shop owners across Europe should be enabled to receive and distribute packages via a simple app. For this purpose, an app was developed for both Android and iOS, along with a backend system that receives the data and forwards it to the existing IT infrastructure of each country.

Additionally, a portal based on Liferay was created to provide back-office employees and shop owners with various data, reports, and invoices.

The application was initially rolled out as a pilot project in Belgium and has since moved into live operation there. Later, additional countries, including Austria and the Netherlands, were integrated into the system.

Starting in May 2016, preparations began for integrating additional countries such as the Czech Republic and Slovakia, as well as for consolidating and integrating the partner management system based on Salesforce.

## Tasks

- Responsible for the architecture and development of the portal based on Liferay 6.2 EE
- Technology expert in Liferay and lead developer in the project
- Architectural responsibility for integrating and consolidating heterogeneous legacy systems
- Use of REST and SOAP as interface technologies
- Logging with Log4j
- Use of SQL and Oracle DB for data persistence
- Ensuring code quality through unit tests, integration tests, and SonarQube
- Creation of automated tests (test automation) using Selenium
- Source code management initially with SVN, later with Git
- Build toolchain consisting of Jenkins and Maven
- Transition of the project from a traditional approach to Scrum
- Onboarding and mentoring of new team members in the project

- Initially used HP Quality Center for requirements management, later switched to Atlassian Jira

#### **| Tools**

Java 7, Spring Boot (incl. Spring Data, Spring Cloud, Spring Batch, Spring Integration, etc.), JUnit, Liferay 6.2 EE, JSF, HTML, CSS, Log4j, REST, SOAP, SFTP, Hibernate, JPA, Flyway, HQL, SQL, Oracle DB, H2, Unit-Tests, Integration-Tests, SonarQube, Selenium, SVN, Git, Jenkins, Maven, Nexus, Eclipse, Scrum, Atlassian Jira

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### **| Design of a prototype based on Salesforce**

Duration, Location    08/2014 – 09/2014, Frankfurt a.M.  
Roles                    Software Developer  
Client, Industry       large automotive company, Automotive  
Team Size               3

A prototype was developed for an automotive manufacturer to showcase a shop solution for digital products in vehicles as part of a Proof of Concept (PoC).

#### **| Tasks**

- Integration of a web interface with Salesforce
- Design and implementation of the prototype
- Presentation of results to the client for project acquisition

#### **| Tools**

Salesforce, JavaScript, HTML, CSS, Eclipse

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### **| Backend development for receiving, processing, and storing reports (IPTV)**

Duration, Location    07/2014 – 08/2014, Frankfurt a.M.  
Roles                    Software Developer  
Client, Industry       large telecommunications company, Telco/Media  
Team Size               3

To enable the reception, processing, and storage of quality reports in the IPTV sector of a major telecommunications company, a backend application was developed. It receives the reports, analyzes them, and converts them into a storable format. The biggest challenge was accurately interpreting and converting the received binary data.

#### **| Tasks**

- Software development based on Java 7 (Java EE / Jakarta EE)

#### **| Tools**

Java 7, JUnit, Eclipse, Ant, XML

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### **| Interface implementation for the management and integration of recording platforms (IPTV)**

Duration, Location    03/2014 – 07/2014, Darmstadt  
Roles                    Software Developer  
Client, Industry       large German telecommunications company, Telco/Media  
Team Size               10

To enable mobile applications in the IPTV sector of a major German telecommunications company to record and watch TV recordings, a system was designed to act as an interface between the recording platforms (cloud solution) and various end devices.

#### **| Tasks**

- Backend development based on Java 7/J2EE (Java EE / Jakarta EE) & Spring
- Integration of interfaces via REST
- Use of Git as a version control system
- Use of Jenkins and Maven
- Working with Scrumban, a hybrid approach combining Scrum and Kanban

#### **| Tools**

Java 7/J2EE (Java EE/Jakarta EE), Spring, JUnit, JBoss, REST, Git, Jenkins, Maven, IntelliJ, Scrumban

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## Development of an internal information portal

Duration, Location 04/2013 – 01/2014, Frankfurt a.M.  
Roles Software Tester / Deputy Test Manager  
Client, Industry large German airline, Aviation  
Team Size 12 (Germany: 5, Poland: 7)

The project focuses on creating a unified information portal for global procedures, work instructions, regulations, and updates related to ground processes, products, and services. The system was deployed on the existing infrastructure, meaning old terminals with limited hardware capabilities.

A key component was replacing the free-text formats of UNISYS to ensure seamless communication after the legacy system was phased out. The biggest challenge was meeting performance requirements despite the outdated hardware.

### Tasks

- Test management
- Development of test ideas and test cases in TestLink
- Black-box testing of software based on Adobe CQ5
- Analysis of existing errors and defects
- Issue management using Jira and HP Quality Center
- Coordination and monitoring of work packages
- Technical guidance for employees in the nearshore center in Poland
- Creation and optimization of the initial rights and roles concept
- Preparation and editing of customer-specific documentation
- Creation and maintenance of training materials

### Tools

Adobe CQ5, Java/Java EE, JSF, JBoss, Ant, OSGi, TestLink, Jira, HP Quality Center

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## DOKIM

Duration, Location 12/2010 – 01/2013, Darmstadt  
Roles Software Developer  
Client, Industry real estate service provider, Real Estate Management  
Team Size 4

DOKIM is a management software for real estate administration at church and municipal levels. In addition to recording basic data and operating costs, it also provides calculations, charts, and comprehensive reports based on this data.

### Tasks

- Implementation in Java 6
- Revision and enhancement of the user interface (Swing)
- Development, modeling, and optimization of various calculation modules
- Maintenance, management, and development of XML documents and formats
- Implementation and optimization of complex calculations in SQL
- Integration of security concepts
- Planning and modeling of a new client-server architecture

### Tools

Java 6, Swing, XML, SQL

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## SUMMARY OF OTHER PROJECTS

2026 – today      Development of a cross-repository pipeline dashboard for real-time monitoring of all CI/CD pipelines (main branches, merge requests, scheduled pipelines, and release tags). Tree and flat views with additive filters, job drill-down, and restarting of pipelines and jobs via GitLab OAuth single sign-on  
Tools: Java 25, Spring Boot 4, Hexagonal Architecture (ArchUnit), React.js, Vite, TypeScript, TanStack Query, OpenAPI, GitLab REST API, OAuth2/OIDC (GitLab SSO), GitLab and GitLab CI, Docker, Claude Code

|                   |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2025 – today      | <p>Architected and developed a suite of microservices for smart heating control. Established event-driven communication using RabbitMQ to ensure resilient data ingestion from diverse IoT sources and sensors</p> <p>Tools: Java 25, Spring Boot 4, RabbitMQ, Nexus Repository Manager, GitLab and GitLab CI, Docker, Terraform/OpenTofu, Prometheus, Grafana, Loki, Claude Code</p> |
| 2024 – 2025       | <p>Nexus Repository Manager self-provisioning tool</p> <p>Tools: Java 21, Nexus Repository Manager, Swagger, OpenAPI Specification (OAS), GitLab and GitLab CI, Docker</p>                                                                                                                                                                                                            |
| 2024              | <p>Development of tools for automated data acquisition and monitoring of modern energy and heating systems (e.g., smart meters, heat pumps, heating circuits)</p> <p>Tools: Java 21, Spring Boot (3.x), Python, PostgreSQL, InfluxDB, Prometheus, Grafana, Loki, GitLab and GitLab CI, Docker, Nexus</p>                                                                              |
| 2022 – 2024       | <p>Tool for controlling FRITZ!Box devices</p> <p>Tools: Java 21, Spring Boot (3.x), Maven, Docker, GitHub, GitHub Actions</p>                                                                                                                                                                                                                                                         |
| 2021              | <p>Development, enhancement, and maintenance of the company's website</p> <p>Tools: Node.js, React.js, GitLab and GitLab CI, Docker, Terraform/OpenTofu</p>                                                                                                                                                                                                                           |
| 02/2014 – 03/2014 | Preparation and delivery of a CQ5 training                                                                                                                                                                                                                                                                                                                                            |
| 10/2012 – 01/2013 | <p>Master's thesis: Analysis and Evaluation of Ranking Strategies for Chain Completion Proposals</p> <p>Tools: Eclipse RCP, Cassandra DB</p>                                                                                                                                                                                                                                          |
| 04/2011 – 09/2011 | <p>Plugin development: Implementation of a flexible Advanced Configuration Page for the Eclipse JDT Content Assist Lists</p> <p>Tools: Eclipse RCP</p>                                                                                                                                                                                                                                |
| 05/2010 – 08/2010 | <p>Bachelor's thesis: Design and implementation of a graphical editor for Composite Model Refactorings in Eclipse</p> <p>Tools: Eclipse EMF</p>                                                                                                                                                                                                                                       |