

# Daniel Heiniger

Senior Java Engineer - from Requirement to Production



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More about me [heiniger.org](http://heiniger.org)  
Based in Zurich, Switzerland  
Nationality Swiss  
Year of birth 1962  
Degree Bsc. Computer Science  
(Dipl. Informatik-Ing. HTL)

Over 30 years of project experience in complex, regulated environments — from requirements engineering through implementation to productive operation and 3rd-level support. Deep expertise in Java backend development, with broad full-stack capability including Angular frontends. Proven track record in Swiss financial institutions including PostFinance, ZKB, Julius Bär, and SBB — delivering mission-critical systems that run. Long-term reliability as lived practice: one key project carried across four employers over nearly a decade.

*Calm, analytical, team-oriented - the engineer you can trust with complex responsibilities.*

## Professional experience

11.2012 - 08.2025

**Senior Software Engineer**, BSGroup Application Services AG, Zurich

Software development for various clients, consisting of requirements engineering, implementation, documentation, deployment, go-live, 3rd-level support, and on-call duty.

Java, SpringBoot, Scala, J2EE, JPA, Maven, Agile, TDD, JUnit, Pair Programming, SQL, DB2, Oracle, XML, Eclipse, IntelliJ, HTML, REST, JSP, Javascript, GWT, Groovy, Atlassian, REST, Angular, Jenkins, CI/CD, Maven, Tomcat, Linux, RIXML.

01.2025 - 08.2025

**Fullstack Software Engineer**, Business Solution Group (intern)

Interne JHipster-Applikation zur Verwaltung von Mitarbeiterprofilen

- Weiterentwicklung und Betrieb einer internen JHipster-Applikation zur Erfassung und Pflege von Mitarbeiterprofilen (Skills, Tätigkeiten, Zertifikate)
- Implementierung neuer Features sowie Optimierung von UI- und Backend-Funktionalitäten
- Einsatz von **KI-gestützten Entwicklungswerkzeugen** zur Erstellung von Implementierungsvorschlägen und Unit-Tests
- Abstimmung mit Stakeholdern zur Definition der Export- und PDF-Funktionen für Ausschreibungen
- Parallel: Weiterbildung zum **Kubernetes Administrator**

Java, Spring Boot, Angular, TypeScript, SQL, PostgreSQL, KI-Tools

11.2021 - 12.2024

**Senior Software Engineer**, PostFinance, Bern (for BSGroup)

Application "CMS" (Card Management System) -

Issuance/blocking/deactivation/replacement of "Yellow Cards" (PostFinance debit card lifecycle management), provisioning as a token in ApplePay, GooglePay, M4M,

Click2Pay wallets, blocking/reactivation/deactivation of tokens (token lifecycle management), sending of status SMS and marketing SMS with incentives.

- Migration from Java 11 to Java 16, Oracle
- Upgrade from JUnit 4 to JUnit 5
- Integration of new features into existing application
  - Provisioning of tokens in ApplePay, GooglePay, M4M, and Click2Pay wallets
  - Lifecycle management of provisioned tokens
  - Sending of status and marketing SMS messages (for incentives)
  - Various features such as creating files with test data for load and performance tests, ensuring proper logging to the central logging platform Splunk
- Operational responsibility for CMS, daily operations, incident tracking and handling

Java, SpringBoot, Eclipse, IntelliJ, CI/CD, Kubernetes, ArgoCD, Oracle, TDD, SaFe, Scrum, Agile, Junit, SQL, REST, Maven, Confluence, Jira, Gitlab, Jaeger, Grafana, Splunk, Polarion

11.2020 – 10.2021

**Senior Software Engineer**, Zürcher Kantonalbank ZKB, Zürich (for BSGroup)

Application "FRR" (Core, Quark, Send) – Publication of financial analysis information to email recipients, information portal, financial information portal, Bloomberg, Standard & Poor's

- Frontend: Angular 9
- Backend: Java 11, Tomcat, Oracle
- Upgrade from SLX version 4.2.4 to 4.4.5 and 5.0.0
- Introduction of new features into existing applications
  - Provision and optimization of RIXML metadata for Bloomberg
  - Implementation of new publication channel for Standard & Poor's
  - Various functions such as automatic release of delivery orders for documents of a specific type, logging of specific events on the central logging platform ZLS, lifecycle/recall management
- Responsible for the operation of the FRR applications, incident management
- Operation of the Quark Express document publishing platform

Java, SpringBoot, Tomcat, Oracle, Linux, Windows, Atlassian, REST, Angular9, Jenkins, RIXML, IntelliJ, Maven

07.2020 – 09.2020

**Senior Software Engineer**, Stadt Zürich Organisation und Informatik (for BSGroup)

Products "My Account", Login administration, Market raffle, House number ordering

- Frontend: Angular 9
- Backend: Java 8, IBM Liberty JEE, Oracle
- Upgrade from Angular 8 to Angular 9
- Implementing new features for existing applications
  - Extending frontend input field validation with REGEX
  - Form refactoring for standardization
  - Integrating new SOAP backend service calls into other applications
  - Simplifying the database schema for improved clarity
- Troubleshooting issues due to platform incompatibility (white screen in Safari)

Java, SpringBoot, IBM Liberty, Kibana, Oracle, Linux, Atlassian, SOAP, REST,

Angular9, Jenkins

05.2018 – 05.2019

**Senior Software Engineer**, Schweizerische Bundesbahnen SBB, Bern (for BSGroup)  
DIAMOND, Diagnosis of monitoring data (track geometry measurements, eddy current crack depths, contact wire measurements)

- Implementation of measurement data signal processing in an agile DevOps team: Import into the big data platform, processing and export to the target systems (SwissTAMP, measurement vehicles)
- Collaboration with other teams, joint development of concepts, specifications and algorithms
- Ensuring operational stability, troubleshooting, and bug fixing

Scala, Big Data, Spark, Hive, Hadoop, OpenShift, Cloudera, Splunk, MQ, JEE-MDB, Confluence

12.2018 – 02.2019

**Java Software Engineer with DevOps-Skills**, SIX Group Services AG, Biel (for BSGroup)

- Maintenance of existing Shark2 applications through 3rd-level support requests from customers
- Analysis and troubleshooting, as well as implementation of feature requests
- Implementation of protective measures against XSS and CSRF attacks for tradedirect.ch and the mobile version

IntelliJ, Linux, MySQL, JSP, Git, Subversion, Maven, Jenkins, Tomcat 6, Java

01.2017 – 11.2018

**Senior Software Engineer, Bank Julius Bär & Co. AG, Zürich** (for BSGroup)

CRM solution from Actico (JBoss server with Oracle database, Java fat clients in country branches, multi-booking center capable, document management system)

- Data analysis and scripting of Oracle PL/SQL bulk updates
- Analysis of new requirements, review of functional specifications, and creation of technical specifications
- Parameterization of new structures (roles and permissions, contract documents, banking products)
- Creation of reports and customized analyses
- Development of an export/import tool for the banking product catalog in Java
- Development of a tool for document management and mass processing of PDF documents for compliance processes
- Creation of a build process for the client application for test and production environments
- Creation and maintenance of a replication system for user permissions for KYC from third-party applications (implemented by Appway)
- Development of a development platform with Git, Eclipse, TDD, Jenkins CI, providing support tools such as product catalog export/import, PDF generator, and distributable client application builds

IntelliJ, Linux, MySQL, JSP, Git, Subversion, Maven, Jenkins, Tomcat 6, Java, JBoss

11.2012 – 12.2016

**Senior Software Engineer**, Globus AG, Spreitenbach (for BSGroup)

In-house developed retail CRM system with the applications CRM-Info (customer master data), Globuscard, cash register transaction search, lettershop (sending push advertising messages), and monitoring tools.

- Operation and maintenance of the loyalty points system for Globuscard and Globus-Pluscard.

- 3rd-level support, application support
- Analysis, design, and implementation of new requirements
- Implementation of REST web services for online portals, webshops, and point-of-sale systems
- Database administration and optimization (tuning)
- Maintenance and improvement of the development environment (TDD, Agile, Continuous Integration, Continuous Deployment)
- Development of new web applications

Eclipse, Maven, Jenkins, Java, JSP, JS, Groovy, SQL, Hibernate, JPA, Spring, jQuery, GWT, HTML, CSS, Oracle, DB2

02.2013 – 08.2024

**System Admin / Specialist, Internal IT**, Business Solution Group

- Consulting and setting up new infrastructure for internal IT
- Maintenance and expansion of internal IT
- Creation and maintenance of the company website and intranet

Ethernet, WLAN, Linux, Windows Server 2008, XEN-VM, VPN / Remote-Access, Firewall, Access Management, WordPress

2000 – 2009

**Long-Term Project: RAigate**

Worked on the project across multiple employers: SYSTOR AG, Accenture, Raiffeisen Informatik AG, and technology innovation & management TI&M AG.

- Development and enhancement of core backend and integration components
- Java development, XML interfaces, SQL
- Stabilization and maintenance of productive systems
- Analysis, design, testing, and documentation
- Knowledge transfer between multiple teams and organizations

11.2012 – 12.2016

**Senior Software Engineer**, SUVA Luzern (i.A. BSGroup)

01.2007 – 10.2012

**Senior Software Engineer**, technology innovation & management TI&M AG

05.2004 – 12.2006

**Applikationsentwickler**, Raiffeisen Informatik AG, Dietikon

03.2003 – 04.2004

**System Analyst**, Accenture (ATS), Zürich

06.1995 – 02.2003

**Senior IT / Technical Consultant**, SYSTOR AG, Zürich

01.1993 – 05.1995

**Programmierer und Projektsachbearbeiter**, IPOSE AG, Brugg

04.1990 – 12.1992

**Projektsachbearbeiter Software**, CSM AG, Uster

12.1987 – 03.1990

**Software-Ingenieur**, RETIS Realtime Software AG, Aarau

12.1985 – 10.1987

**Technischer Mitarbeiter**, Brown Boveri & Cie AG, Baden

04.1982 – 07.1982

**Programmierer für Mikrosysteme**, Indumatation AG, Aarau

## Training

04.2025

Kubernetes Administrator Kurs

06.2020

Full Stack Developer (Angular/TypeScript/Microservices/Docker/Kubernetes)

05.2019

Scala and Spark

06.2018

Introduction to TypeScript and AngularJS

03.2015

Scrum Master by ScrumAlliance

02.2003

Sun Certified Developer for the Java 2 platform

09.1982 – 11.1985

Diplomierter Informatik-Ingenieur HTL (Bsc. in Computer Science)

## Languages

German	Native
English	Fluent (spoken and written)
French	Conversational

## Part-time activities

2006 – heute

### Web developer

Freelancer under the name Heiniger Engineering

- Blog hosting with a WordPress multisite installation (<http://blog-net.ch>).
- For a few clients: Technical implementation of their provided web design, sometimes in cooperation with a graphic designer, using HTML/CSS/PHP.

2003 – 2012

### Computer supporter

TAO CHI Schule für traditionelle chinesische Medizin, Zürich

- Management of the infrastructure (servers, telephony, fax)
- Technology consulting for management.

1987 – 2011

### Interpreter

Projekt B, Der Männerworkshop, Zürich

Simultaneous bidirectional translations between English and German.

## Lecturing activities

2001 – 2002

### Software architecture for electronic portals and marketplaces

University of Zurich, Faculty of Economics

2000

### Practical exercises in computer programming

Furtwangen University of Applied Sciences, Germany

1999 – 2000

### Software architectures for electronic portals and marketplaces

Fachhochschule Furtwangen, Deutschland

1984 – 1985

### Introduction to computer programming

Vocational school, Baden

## Hobbies




Reading (crime novels, novels, history)

Animals (cats, guinea pigs, zoo visits)

Nature (walks, TV documentaries)

## Competency matrix according to SwissICT

(Legend: 1=Basic knowledge, 2=Advanced, 3=Proficient, 4=Expert)

Competency	Level	Skills
 Specialist and methodological skills		
ICT management	2 - 4	Setup and maintenance of internal IT infrastructure (3), XEN-VM (2), VPN (3), Firewall (3), Access Management (3), WordPress (4)
Project management	3 - 4	Feature development (4), migrations (4), incident tracking (3), daily support (3), coordination with clients (3), agile methods (4)
Risk management	2 - 4	XSS/CSRF protection (2), Token lifecycle management (3), Logging with Splunk (4), Security-relevant features (3)
Quality management	3 - 4	TDD (4), JUnit 4/5 (4), CI/CD with Jenkins (3), Logging-Strategies (3), Performance-Testdata (3), AI-assisted development tools (3)
Service design	2 - 3	REST/SOAP services (3), User-friendly frontends (2), Form refactoring (2)
Architecture	2 - 3	Microservices (3), Event Driven Architecture (3), GoF Design Patterns (3), SOA (3), JEE (2), Spring (3), SpringBoot(3)
Methodological competence	3 - 4	Scrum (4), XP (3), TDD (4), OOA/OOD (3), UML (3), Entity-Relation (3)
Ergonomics, Usability	2	Angular-Formulare (2), REGEX-Validierung (2), Safari-Kompatibilität (2), Frontend-Optimierung (2)
 Business administration of ICT		
Organization	3 - 4	Setting up internal IT (3), support processes (3), coordination with customers (3), documentation (3), intranet maintenance (4)
 ICT technical skills		
Information security	2 - 4	XSS/CSRF protection (2), token handling (2), logging with Splunk (4), incident handling (3)
Business- & Requirements Eng.	3	KYC (3), CRM (3), Requirements Engineering (3), Functional/Technical Specifications (3), Role based permissions Models (3)
Application Engineering	2 - 4	Java (4), Angular (3), REST (3), SOAP (2), JEE (2), JSP (2), Servlets (2), Spring (3), SpringBoot(3), ULC (3), Quark Express (2), JHipster (2)
Hardware Engineering	2 - 3	Ethernet (3), WLAN (3), Windows Server (2), Linux administration (2)
Network Engineering	2 - 3	VPN (3), Remote Access (3), Firewall configuration (3), Network diagnostics (2)
Service Engineering	1 - 3	Operations (3), Quark, Monitoring platforms (1), Incident tracking (3), Daily service (3)
Data Engineering / Management	2 - 4	Oracle (4), DB2 (3), MySQL (3), PL/SQL (3), PostgreSQL (3), Spark (2), Hive (2), Hadoop (2), Entity-Relational Mapping (4)
Technical Software Engineering	3 - 4	Maven (3), Jenkins (3), Git (3), CI/CD (3), DevOps with OpenShift/Kubernetes (3), IntelliJ (3), Eclipse (4), AI-assisted development tools (3), Kubernetes Administrator Training (2)
Application Operation	3 - 4	3rd-Level-Support (4), Logging (4), Monitoring (3), Splunk (3), Operations of productive applications (3)