

# Daniel Heiniger

## Senior Java Engineer – From Requirement to Production.

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## Summary

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.

## 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.

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
- 1999–2009 **Long-Term Project: RAlgate**

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**, Indumation 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

- Deutsch Muttersprache
- Englisch Fliessend in Wort und Schrift
- Französisch Umgangssprache

## 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)

Kompetenzbereich	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)
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)
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), 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)
Application Operation	3 - 4	3rd-Level-Support (4), Logging (4), Monitoring (3), Splunk (3), Betrieb von produktiven Anwendungen (3)