

Richard Wettel

Curriculum vitae

Personal Information

Nationality	Swiss, Romanian
Birth Date	12.11.1974
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Industry Work Experience

11/2015–today **Senior Software Engineer**

PostFinance
Bern, Switzerland

Projects:

UI Migration (11/2019–today)

Migrating the UIs of 3 application from rich-client to web-based technology. Within the UI team, I was actively involved in the hiring process and was responsible for the onboarding of new team members. Technologies: *J2EE, Spring, Eclipse RCP, angular, Typescript*

Card and Contract Management (11/2015–today)

Maintenance of a critical internal software system for managing the cards and contracts. Acting as full-stack developer, I implemented both frontend and backend and was also involved in the deployment. Technologies: *J2EE, Spring, Eclipse RCP, Kubernetes*

Core Banking Transformation (11/2015–04/2018)

Prototyping for card pricing, as part of a major project aimed at replacing the legacy core banking system with a modern one. Technologies: *J2EE, Spring, Eclipse RCP*

03/2013–10/2015 **Senior Software Engineer**
CompuGroup Medical Schweiz
Niederwangen, Switzerland

Projects:

G3 integration (06/2014–10/2015)

Coordinated a distributed team of 7, working on the integration of a new HIS (Hospital Information System) framework. Directly involved in every step of the integration process (DevOps), from a new release of the framework down to the deployment of the integrated product. Scrum, continuous delivery, humane assessment.

Technologies: *J2EE, JBoss, SWT, Adobe Flex, HTML5, JavaScript*

Phoenix (03/2013–06/2014)

Maintained and developed a highly configurable legacy HIS. Participated in several successful performance improvement efforts.

Technologies: *J2EE, Eclipse RCP, JBoss, Delphi, Scripting, Drools, Oracle and MSSQL databases*

Phoenix Administrator (06/2013–09/2013)

Designed and developed a graphical configuration management system, aimed at supporting business consultants in configuring our HIS application (hundreds of settings).

Technologies: *Eclipse RCP, SWT, Processing*

Tooling (03/2013–10/2015)

In the context of humane assessment, implemented and contributed tool support: *Version Radar*, a version tracker which correlates code, components, and releases, *Properties Surveyor*, a tool for managing localization resources, *Log Driller* a structured log data presentation tool that supports performance analysis and various *architectural rules* which encapsulate architectural decisions, against which the code base can be tested.

Technologies: *Moose, Pharo*

10/2010–02/2013 **Senior Software Engineer**
Lifeware
Bioggio, Switzerland

Projects:

Online life insurance software (04/2011–02/2013)

Involved in the development and maintenance of a complete, fully integrated, web based solution for the management of life insurance products. eXtreme Programming, TDD, Continuous Delivery.

Technologies: *Smalltalk, GemStone database*

Portfolio importer (10/2010–04/2011)

Developed a tool for importing the entire portfolio, consisting in the complete history of over 120'000 contracts, of a major Swiss life insurance company, by reverse-engineering the database.

Technologies: *Smalltalk, GemStone database, Oracle database*

02/2005–03/2006 **Software Engineer**
Sava Technologies
Timișoara, Romania

Projects:

Online retirement plan software (02/2005–03/2006)
Product integration and maintenance of a retirement plan software.
Technologies: *J2EE, Eclipse, Tomcat, Ant*

12/2003–01/2005 **Software Developer**
ETA Industrial Automation
Timișoara, Romania

Projects:

Web Fleet Tracker (05/2004–01/2005)
Developed a fleet tracking system for the local public transportation company. Soft real-time system, GPS localization, client-server communication via GPRS, Siemens TC45 hardware.
Technologies: *J2ME, J2EE, Tomcat*

Jabbot (04/2004–05/2004)
Prototyped a server application to exercise the Siemens TC45 mobile platform. The server, installed on a TC45, accepted commands via instant messaging to perform relay switching and sensor readings.
Technologies: *J2ME, Jabber*

Hot Water Regulator (12/2003–03/2004)
Reverse-engineered, re-documented and refactored a legacy system for the local heating provider. Hard real-time application, Dallas TINI, LCDs, temperature and pressure sensors, relays.
Technologies: *Java, doxygen*

Education

- 03/2006–09/2010 **Ph.D. in Informatics**
University of Lugano, Switzerland
Thesis: *Software Systems as Cities*
Dissertation project:
CodeCity (03/2006–10/2010)
Freely available visualization tool based on a 3D city metaphor, CodeCity was used in a controlled experiment involving 42 participants from industry and academia, to validate the “software systems as cities” approach against the state-of-the-practice. CodeCity has been used as undergraduate course material at several universities. Recently, it has been featured in books on software engineering¹ and information visualization.²
Homepage: <http://wettel.github.io/codecity.html>
Technologies: *Smalltalk, Moose, Jun (OpenGL)*
Awards:
1st prize at the **Riconoscimento ated-ICT Ticino** contest for the project *CodeCity: Immersive Software Visualization* (out of 18 industrial and academic projects).
- 09/2004–07/2005 **Master of Science in Computer Science**
“Politehnica” University of Timișoara, Romania
Thesis: *Language-Independent Detection of Clones with Renamed Variables*
- 09/1999–07/2004 **Bachelor of Science in Computer Science**
“Politehnica” University of Timișoara, Romania
Thesis: *Automated Detection Of Code Duplication Clusters*
Diploma project:
DuDe (09/2003–07/2005)
Language-independent code duplication detector, based on the novel concept of duplication chain. Designed as support tool for the diploma thesis, later enhanced (Master’s project) to support approximate matching. Freely available as standalone tool or as plug-in for the iPlasma/inCode software analysis platforms.
Homepage: <http://wettel.github.io/dude.html>
Technologies: *Java*
Awards:
Best Software Architect award in the **LOOSE** (Laboratory for Object-Oriented Software Engineering) student contest in 2003.

¹Adam Tornhill. *Your Code as a Crime Scene: Use Forensic Techniques to Arrest Defects, Bottlenecks, and Bad Design in Your Programs*. Pragmatic Bookshelf, 2015.

²Manuel Lima. *The Book of Trees: Visualizing Branches of Knowledge*. Princeton Architectural Press, 2014.

Language Proficiency

Romanian	native
English	fluent
German	advanced Goethe-Zertifikat B1 , score of 294 / 300, session 07/2012
Italian	advanced

Technical Skills

Programming	Java, Typescript, angular, Smalltalk, Scheme
OS	Mac OS, Unix/Linux, Windows
IDEs	Eclipse, IntelliJ Idea, Webstorm, Pharo, VisualWorks, DrScheme
Tools	Bamboo, Maven, Kubernetes, ant, JUnit, git, SVN, Jira, Confluence
Databases	Oracle, MS SQL, GemStone
Practices	SCRUM (Professional Scrum Master I certificate, issued on 01/2020 by scrum.org), Agile Development, Continuous Delivery, Design Patterns, Refactoring, eXtreme Programming (XP), Test Driven Development (TDD), Humane Assessment

References

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