

# Stefan Zeiger

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## Work Experience

### 2001 - present, Commerzbank AG

Senior Software Engineer, Tax Systems (since 2011)

- Technical lead on a team of 5 Java developers for a web application prototype based on Scala, Lift and ScalaQuery
- Successfully deployed the prototype with more than the originally planned functionality after 2.5 months of development

Senior Software Engineer, Commercial Banking (2010)

- Technical lead on a team of 10 Java developers porting an existing Visual Basic application to JEE using the in-house framework based on JSF, RichFaces, Spring Web Flow and custom components
- Improved the performance of the system by replacing framework components with similar code developed by myself for XMS

Software Developer / Senior Software Engineer (since ca. 2006), Investment Banking (2001-2009)

- Technical lead (since 2004) and assistant project manager / team lead on the XMS (eXotics Management System, <http://www.innovations-report.de/html/berichte/unternehmensmeldung/bericht-59635.html>) project of between 4 and 12 Java developers. XMS is an XML-based integration platform for classifying and normalizing exotic trades from different back-end systems which enables business users to define their own trade structures and transformations. It is implemented in Java.
- Designed and implemented XMS Script, the proprietary language which is used by business users to implement all rules in XMS. XMS Script is a mostly pure, optionally typed, functional language with an XPath-like notation for selecting data from XML documents. The implementation includes a parser, an efficient interpreter, a number of optimizer passes, a type and effects checker, a profiler and a REPL
- Designed and implemented large parts of the business layer, including the identification and transformation engines
- Implemented parts of the original database layer for Tamino XML database and most of the new database layer for Oracle XDB
- Designed and implemented a JSP-based web client with complex client-side interactions and AJAX functionality

- Designed and implemented a job scheduler system
- Designed and implemented an EAI module which translates COBOL copybook definitions into an annotated XML schema (based on the XMS Script type system) and then transforms data from XML documents into flat record files and back.

## 1997 – 2001, self-employed

- Designed and implemented NetForge (<http://novocode.com/prod/nf/>), a Java-based web server which featured one of the first implementations of the Java Servlet Specification

## Personal Projects

- 2010 - present: Extradoc, an extended version of Scala's scaladoc command, which can create output in JSON format and render it in a web browser with a client-side JavaScript application (<https://github.com/szeiger/extradoc>)
- 2009 - present: sbt JUnit interface, an implementation of sbt's test interface for JUnit 4 (<https://github.com/szeiger/junit-interface>)
- 2009 - present: ScalaQuery, an API / DSL built on top of JDBC for accessing relational databases in Scala (<http://scalaquery.org/>)
- 2004-2008: Novocode Application Framework, a layer of MVC-based GUI components on top of SWT and JFace, along with an XML language for declarative GUIs (<http://novocode.com/naf/>). A number of individual SWT Controls developed as part of this project can be found at <http://novocode.com/swt/>
- 1997-1999: Novocode Toolkit (originated as a part of NetForge), a collection of utility classes for the Java platform (<http://sourceforge.net/projects/novocode-tk/>)
- 1997-1999: Metaconf (originated as a part of NetForge), a framework for building applications which can be configured over a network, including an HTML-based and an AWT-based client (<http://novocode.com/prod/mc/>)
- 1993-1998: Triton GUI Creation System, an object-oriented GUI library for AmigaOS, written in C (<http://szeiger.de/amiga/triton.html>)

## Skills

- Platforms: Windows, Solaris, Linux

- Languages: Java/JEE, Scala, JavaScript (used actively); C, C++, Objective-C, Perl, sh, Pascal, Tcl, BASIC, COBOL (used in the past or only for small projects)
- Web technologies: Sockets, HTTP, HTML, XML, CSS, XSLT, JSP, JSF, AJAX
- Databases: PostgreSQL, MySQL, Oracle, H2, HSQLDB, Derby, SQL Server, Access, SQLite, Tamino
- Tools: Eclipse / Rational Application Developer, IntelliJ IDEA, git, Subversion, TFS, Sparx Enterprise Architect, Rational Rose, Rational ClearQuest

## Publications

- Co-author of “Professional Java Server Programming – J2EE Edition” (Wrox Press, 2000)
- Co-author of “Professional JSP” (Wrox Press, 2000)
- Co-author of “Professional Java Server Programming” (Wrox Press, 1999)
- Author of the popular Servlet tutorial “Servlet Essentials” (<http://novocode.com/doc/servlet-essentials/>, 1998-1999)

## Education

- 1996-2001: Study of Informatics at Technische Universität Darmstadt, Germany
- 1985-1994: Secondary education at Spessart-Gymnasium Alzenau, Germany

## Languages

- German (native speaker)
- English (fluent)

## Online

- Home page: <http://szeiger.de/>
- Java software projects: <http://novocode.com/>
- GitHub profile: <http://github.com/szeiger/>
- StackOverflow profile: <http://stackoverflow.com/users/458687/szeiger>