

# Sean E. Russell

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## **Summary of Qualifications**

- Nine years of commercial software development experience
- Eight years of commercial Java programming experience
- Four years of commercial XML and XSLT experience
- Six years of commercial Linux administration experience
- Two years of commercial Solaris administration experience
- Two years project and team management experience
- Proven ability in all areas of project development, including design, project, team, and resource management, implementation, documentation, and release
- Knowledgeable about a wide variety of software development tools
- Adept at working with customers to define project scope, setting and maintaining release schedules
- DOD "Secret" security clearance (expired)

## **Selected Skills and Experience**

- Expert level Java 1.0 through 1.4, with extensive experience with Swing, RMI, JDBC, and Servlet APIs; strong experience with Ruby; Haskell; shell scripts; C & C++
- Expert XML, XSLT, and SVG skills
- 1, 2, and 3-tier architectures, and communication layers
- Development tools including ant, make, Subversion, CVS, darcs, GNATS, vim
- OOP and project management with XP, UML, gantt, patterns
- Unix-ish OSes: Strong Linux and Solaris, AIX (including DCE)
- Experience with Oracle, PostgreSQL, DBase II. Basic SQL knowledge
- Server architectures and APIs: Apache, Tomcat, XML-RPC, LDAP
- Experience as team lead
- Fluency in German, partial fluency in Esperanto and French

## **Professional Background and Achievements**

*These are in reverse chronological order. Education is included in this section.*

- **SAI People Solutions** 2002-2004  
*Java and XML Expert*  
King of Prussia, PA  
Role: contract employee with Glaxo-Smith-Klein, working in I.T. R&D developing drug discovery and IT support tools. In an R&D role, I participated in the design and delivery of a major project, as well as being involved in the research into two other knowledge management tools.
  - Architected data entry toolkit for £12bn data integration project. This toolkit was used by multiple I.T. groups in support of business units, as well as being adopted outside of the primary project by other business units. As part of a team of four, I implemented 80% of the toolkit over a twelve month period. This toolkit is currently in active deployment. We

delivered our toolkit ahead of schedule, to spec, in addition to attracting more in-company clients through presentations and public forums. This toolkit involved XML, XSLT, and Java servlet and JSP coding.

- Participated in the design of a process navigation tool, designed to make the complex process of drug discovery and delivery more comprehensible. This involved Java Swing and 2D development, as well as XML transformation and interpretation.
  - Participated in the research and design of a knowledge management user interface, for browsing ontologies and resources.
  - Installed and configured the department shared source code repository on Solaris servers, and assisted in migrating existing CVS and Visual Source Safe projects to the new server. The source repository was Subversion, which is a WebDAV extension layer on Apache.
  - As the resident Java and XML expert, I played the role of mentor to other, more junior contractors, as well as a number of interns.
- **n-Link Corp** 1998-2002  
*Project Lead / Sr. Software Developer*  
 Bend, OR  
 US Forest Service. Project lead, developing statistical analysis tools module for nationwide Oracle database(s). Design & development of business logic tier and user interface tier of a three tier system in Java. Linux admin & AIX liaison.
    - Project lead for a team of four; three developers and a technical writer.
    - Participated in the architecture and development of a statistical analysis tool for a series of organization-wide, standardized ecological databases (Soils, Fauna, GIS, Water, etc) in Oracle. This project was a three tier architecture, with a Java Swing front-end, a Java server, and the Oracle back-end; my team was responsible for the front two tiers. I wrote 40% of the code, and touched all of it. In addition to Swing, RMI and JDBC were key APIs used by this tool.
    - Refactored a legacy data processing tool, improving speed by a factor of 38. This required bash shell and Ruby scripting.
    - As the Unix expert, served as AIX and Linux liaison for the team, which developed on a mix of Windows NT, OS/2, and Linux. The target servers were AIX, while the target clients were Windows 98.
  - **University of Oregon** 1994-1998  
*Lead Software Engineer*  
 Eugene, OR  
 Software development (Java), systems administration (Solaris), web maintenance
    - Developed a series of "virtual laboratory" experiments. These consisted of accurate experiments implemented as applets as part of a larger curriculum designed to ease congestion of physics labs, and to provide for improved distance learning. This made heavy use of AWT and the Applet APIs.
    - Administered 3 Solaris Sparc 10 servers, as well as two Sparc 5 workstations, including web (Apache) and mail services.
  - **University of Oregon** 1995  
*Bachelor of Arts and Science in Computer Science*  
 Eugene, OR
  - **Active duty military service** 1985-1988
    - US Army, infantry. 10<sup>th</sup> Mountain Division. E-4 exit rank; MOS 11B1PC2

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- **Software Support Services, Inc.** 1984-1985  
*Programmer*  
Corvallis, OR  
Support and customization of inventory and tracking database applications
  - Maintained and customized inventory and tracking applications in DBase II for oil and ground shipping companies.

## **Awards and Recognition**

- REXML writeup: <http://www-106.ibm.com/developerworks/xml/library/x-matters18.html>
- REXML writeup: Linux Journal, March 2004. "Manipulating OOo documents with Ruby"
- Core JAVA ISBN: 0-13-565755-5
- Java! ISBN: 1-56205-533-X
- Web Page Design ISBN: 0-13-239880-X
- Physics Today (Periodical)
- President, Oregon Java Interest Group 1995-1997
- Honorable Mention in the first Java Programming Contest (Sun) 1995
- President's List, Linn-Benton Community College 1989
- Army Achievement Award 1988
- Meritorious Service Award 1987
- 2nd place Regional Programming Contest (Team) 1983
- President, Computer Club, Corvallis High School 1983-1984
- 5th place National Olympics of the Mind (team) 1983

## **Career Objectives**

To be part of a team that delivers useful, quality product. I believe in the XP (Extreme Programming) philosophy, and believe it to be an important tool for quality control and for the satisfaction of both business (the customer) and development teams. I'd like to be a permanent member of a company with some possibility of advancement.

## **References**

Contact information for coworkers, supervisors and managers, and past clients are available on request, as are sourcecode examples.

## **Examples of work and experience**

- University of Oregon: <http://jersey.uoregon.edu>
- Independent work: <http://www.germane-software.com/software>
- I authored the first pure Java XSLprocessor (docproc)
- I authored the first pure Java database, jDB
- I have licensed Java software I've written to Ericsson and Software AG
- I authored and maintain the XML processor for the Ruby programming language. REXML provides a fully XPath 1.0 compliant interpreter, as well as pull, SAX2, and tree parser APIs.

**Hobbies**

Downhill skiing is my favorite outdoor sport. I have been studying Aikido for a number of years, and also study Iaido. I am an avid reader, and of course enjoy working with computers. I visit western Europe whenever possible, and have an interest in European historical culture, societies and languages. I am also interested in a number of Japanese passtimes (origami, haiku, bonzai, calligraphy, etc).