

James S. Ravn

web: <http://jsravn.com>

Education: B.S. Computer Science and Engineering. University of California, Los Angeles (2005). 3.5 GPA.
Graduate computer science classes at DePaul University (5 classes, 2006-2008). 4.0 GPA.

Skills Overview

- Languages: C, Ruby, Java, SQL, JavaScript, HTML (4.x, XHTML), CSS
- Frameworks: Ruby on Rails, ASP, AJAX (Prototype, Scriptaculous), J2EE (Tomcat, Servlets)
- Technologies: Databases (Oracle, MySQL, MS SQL), REST (Rails), Concurrency (Java, Ruby)
- Practices: Test driven development (JUnit, test/unit), Version control (git, svn, bzt), Object Oriented Design (Design patterns, UML)
- Tools: Emacs, Eclipse, Visual Studio, Excel, Git, Subversion (svn), Bazaar (bzt), Cygwin, Autotools, LyX, Capistrano
- OS: Linux (Ubuntu, Gentoo, Debian), Solaris, Windows
- Application Servers: Apache, Tomcat, Mongrel, IIS
- Statistical: Data analysis (Excel, Minitab), Linear regression, Discrete event simulation, Monte Carlo, Neural Nets

Experience

Senior Software Engineer, Motorola Mobile Devices (Libertyville, IL)
Jan. 2006 – Current

- Rated in the top 10% of the company in my annual performance review. Received a fast promotion to Senior Software Engineer after 10 months with the company, a position typically reserved for someone with 2-3 years of experience.
- Designed and created several web applications for management of the software organization. Worked closely with my customers and used an iterative style of development, releasing changes early and often. Created RESTful web front ends, allowing data to be accessed in many formats in a standard way. (ASP, Ruby on Rails, AJAX)
- Co-designed and implemented Excel tools for software defect and ship date estimation. Learned many statistical techniques in a short time frame, including regression analysis, queuing theory and Markov chains. (Excel, Minitab)
- Co-led user trial improvement project, including documentation, training, and community support.
- Deployed and modified BugzillaMetrics open source tool, adding features such as servlet container authentication support. Several patches were accepted by the upstream maintainer. (Java, J2EE, Google Web Toolkit, Tomcat)
- Data mining and analysis of various data sources to support data driven decisions by product managers. Created scripts to automate data mining tasks. (Oracle, MySQL, MS SQL, Idap, ClearDDTS, HTML scraping, Ruby)

Software Engineer, Signal Transport (Irvine, CA)
Sept. 2005 – Jan. 2006

- Designed and implemented a public website for a new product line. (Ruby on Rails)

Extra-curricular

- Added support for the Linux kernel RTC in an open source Quakeworld client. (C)
- Co-creator of the Autocomplete Manager, a Firefox addon with 100,000+ downloads. (JavaScript, XUL)
- Implemented zlib compression of a telnet stream for an open source MUD, following the MCCP protocol. (C)
- Created a RISC CPU on a Xilinx FPGA and developed assembly programs for it such as quick sort. (Assembly)
- Created a compiler for a mini Java language using JavaCC, involving language translation steps and grammars. (Java)
- Implemented a Blackjack AI program using temporal difference backpropagation on a neural net. (Ruby)
- Created an open source Monte carol/discrete event simulation library. (C, Java)