

PAUL J. McREYNOLDS

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EDUCATION

September 2000 – June 2004
Stanford University

- B.S. in computer science
- Stanford Overseas Studies Program in Paris, France
- 3.65 GPA

Coursework completed includes linear algebra, multivariable calculus, statistics, discrete math, data structures and algorithms, automata, complexity theory and analysis, artificial intelligence, cryptography, compilers, computer graphics, operating systems, electrical engineering, physics, micro- and macroeconomics.

For my senior software project I worked with IBM researchers to build Java software for training and evaluating neural networks in a distributed computing environment.

September 1996 – June 2000
Pacific Grove High School, Pacific Grove, CA

- 1500 SAT (750 math / 750 verbal)
- Valedictorian

EXPERIENCE

May 2007 – Present
Senior Software Engineer
PIX System, San Francisco, CA

Responsible for development and maintenance of PIX's flagship product, a hosted media storage/viewing and project management application for film producers and production teams. Built a custom, native QuickTime-based DRM solution that uses strong cryptography to protect video assets from unauthorized distribution and reproduction. Designed and built a versioning and automatic update system for hardware devices deployed on location during film production and post-production. Wrote the specification for and oversaw implementation of a natural language processing system for creating calendar events by parsing colloquial expressions of date and time. Interacted with project and product managers to define requirements for all projects undertaken and generated extensive technical and business-level documentation of features and systems designed.

March 2006 – April 2007
Lead Web Engineer
Integration Appliance, Palo Alto, CA

Developed a hosted web application for data integration planning and management. The backend runs on a Java web server and uses Hibernate for relational persistence and Spring for dependency injection. The client is mostly JavaScript with some JSP and makes heavy use of the "AJAX" paradigm. Client and server communicate via a SOAP web service built using JAXB/JAX-WS. A system based on stub objects that can be loaded and unloaded remotely minimizes client/server traffic and mitigates the problem of object graph cycles during XML serialization.

October 2004 – December 2005

Software Engineer

Integration Appliance, Palo Alto, CA

Developed the Java Swing GUI client for configuration of the IntApp product, a data integration appliance built to facilitate communication between systems built on disparate persistence technologies (including Oracle, Microsoft SQL Server, DB2, Postgres and MySQL databases; LDAP repositories and WebDAV servers) and communication protocols (including HTTP, FTP and SOAP). Also contributed to the Java software running on the appliance. All development was done in Java 1.5. The software was built and deployed with Apache Ant. Versioning was managed with CVS and bugs/enhancements tracked in Bugzilla.

June 2004 – October 2004

Sales Engineer

Integration Appliance, Palo Alto, CA

Served as technical lead during sales engagements. Provided support to prospective and existing users of the IntApp product and developed auxiliary solutions, including PHP/MySQL software for auditing Microsoft Active Directory repositories. Participated in debugging and quality assurance efforts. Performed miscellaneous technical tasks, including deployment of a Cisco VOIP phone network. Developed the IntApp Customer Community website, an online forum for customer interaction and information exchange, using open source PHP software.

June 2005 – February 2006

Web Designer

Forum for American/Chinese Exchange at Stanford, Stanford University

Collaborated with FACES executive staff to design a new web page for the organization. Imaging was done in Adobe Photoshop and the page scripted in HTML and CSS with the goal of creating a web presence that is correctly rendered on a wide variety of platforms and browsers.

January 2004 – May 2005

IT Officer

Stanford Journal of Law, Business and Finance, Stanford University

Worked with one other student to develop an online project management system for the Journal, a bi-annual academic publication edited by students of the Stanford Law School. To implement the system we modified and extended web software written using PHP with a MySQL backend. In addition, I was responsible for developing and maintaining the journal's credit card e-commerce system for offering subscriptions and back-issues online.

October 2003 – January 2004

Test Writer

SettingPace Publishing, Cincinnati, OH

Wrote chapter-end exams for a comprehensive, advanced-placement high school computer science textbook produced by SettingPace and published by McGraw Hill. Topics included general computer science theory, computer architecture, data structures and algorithms, concurrency and object-oriented programming. All examples and programming instruction were in Java. Wrote multiple-choice, completion and essay questions addressing each topic treated.

September 2000 – May 2004

Graphic Designer

Caffe D'Amore, Monrovia, CA, USA

Designed labels for multiple lines of food products. Labels were prepared using Adobe Photoshop. Materials included my own digital photographs and some stock photography.

QUALIFICATIONS

- Strong communication skills, oral and written
- Proficiency in C, C++, Java, JavaScript, PHP, SQL, HTML, CSS
- Experience with XML (DOM, SAX, namespaces), JSP, Servlets, JSF, Struts, Tomcat, Resin, JAXB/JAX-WS, SOAP, Java RMI, Hibernate, Spring
- Familiarity with Linux, Windows and Macintosh platforms
- Background in math, theory of computation, complexity theory and algorithm analysis
- Extensive software development training and experience, but still learning
- Four years instruction in Spanish and two years in French including three months study in Paris
- 160 hours instruction in Mandarin Chinese and some exposure to Japanese