Gregory M. Methvin

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Education

Carnegie Mellon University *(Pittsburgh, PA)*
Bachelor of Science in Computer Science, 2011
Minors: Robotics, Language Technologies, Mathematical Sciences
GPA: 3.6/4.0, University Honors

Glenelg Country School *(Ellicott City, MD)*
College Preparatory Program, Class of 2007
GPA: 4.0/4.0

Technical Skills

Operating Systems: GNU/Linux (Debian, Arch Linux, Gentoo), Mac OS X, FreeBSD, Solaris, Microsoft Windows

Programming Languages: C, C++, Java, SML, Perl, Ruby, Python, IDL, MATLAB, *nix shells, x86(-64) assembly

Web Languages: JavaScript, (X)HTML, XML, CSS, ASP, PHP, JSP, ColdFusion

Experience

Addepar (Mountain View, CA) June 2011 to Present
Senior Software Engineer

- Developing a software platform to help private financial advisors and family offices perform quantitative analysis, visualize financial data, understand risk, and interface with their clients.
- Creating tools to help investors collect, aggregate and share financial data.
- Helping to build out the company's software architecture and develop engineering processes.

Carnegie Mellon University Robotics Institute (Pittsburgh, PA) January 2011 – May 2011
Teaching Assistant - 16-311 Introduction to Robotics

- Developed and graded labs and assignments for the course.
- Held office hours to help students with lab assignments and homework.

Facebook (Palo Alto, CA) May 2010 – August 2010
Software Engineering Intern

- Helped implement components of the Facebook site using PHP, XHTML, CSS, JavaScript and other tools.
- Refactored Facebook's JavaScript and PHP libraries to make them easier to use and reduce latency.
- Worked as the primary developer for the new Account Settings page, including both the back-end controller architecture and front-end UI components.

Carnegie Mellon University Human-Computer Interaction (Pittsburgh, PA) August 2009 – May 2010
Student Researcher

- Aided with studies concerning user-interface navigation by motor-impaired individuals.
- Helped develop a Web-based introductory Java programming course for Open Learning Initiative (OLI).

Johns Hopkins University Applied Physics Laboratory (Laurel, MD) May 2009 – August 2009
Software Development Intern - Technical Services

- Maintained and updated Web-based applications for product lifecycle management and work request systems, helping improve usability, browser compatibility, and standards-compliance.
- Created Web-based tools for managing employee training requirements using Java, JSP and JavaScript.

TruSky.com January 2008 – December 2009
Web Developer / Software Consultant

- Implemented PHP and JavaScript sites for eBay sellers and small online retailers.

NASA Goddard Space Flight Center (Greenbelt, MD) June 2006 – August 2006

Intern - Software Developer

- Developed software to process and catalog Chandra X-ray images.
- Helped cross-reference the data between the Chandra and XMM-Newton catalogs.

Glenelg Country School (Ellicott City, MD) Fall 2005 – Spring 2007

Database/Web application developer

- Worked on ASP/SQL-based applications to manage student information.
- Developed a Web application from scratch to keep track of community service hours.

Relevant Coursework and Activities

Language Technologies Project Fall 2010 – Spring 2011

- Helped port the Flite text-to-speech program to the Android platform.
- Created and trained a customized Flite voice optimized for use with the navigation on Android.

Student Technology Outreach Fall 2009 – Spring 2011

- As an organization leader, helped organize events to fill technology-related needs in the community, including Web development, computer recycling and donation, and tutoring children in computer science and robotics.
- Helped on several Web development projects by donating my time and expertise to build Web sites and blogs for local non-profit organizations.

Operating System Design and Implementation Fall 2009

- Implemented an operating system kernel in C and assembly for the x86 platform, with basic scheduling, preemption and memory management capabilities.
- Implemented a thread library that could be used with the OS kernel to write multithreaded applications.

Computational Intelligence Lab Fall 2008

- Created a meeting speech analysis system using C++, which could be used to assess the mood, time talking, and number of interruptions for participants in group meetings.
- Created a GTK+ GUI frontend and a PHP-based web application to display the results.

References available upon request.