

Gregory M. Methvin

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Education

Carnegie Mellon University, Pittsburgh, PA
B.S. in Computer Science, 2011 (expected)
Minors: Robotics, Language Technologies, Mathematical Sciences
GPA: 3.6/4.0

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

Skills

Operating Systems: GNU/Linux (Debian, Arch Linux, Gentoo), FreeBSD, Solaris, Microsoft Windows
Programming Languages: C, C++, Java, SML, Perl, Python, IDL, MATLAB, *nix shells, x86(-64) assembly
Web Languages: JavaScript, XML, (X)HTML, CSS, ASP, PHP, JSP, ColdFusion

Relevant Coursework and Projects

Operating System Design and Implementation (Fall 2009): Designed and implemented a thread library and complete Unix-like operating system, with basic scheduling, preemption and memory-management capabilities.

Speech Processing (Fall 2009): Created a voice for text-to-speech based on my own voice, developed language models and grammars for speech recognition, and implemented a spoken-dialog system for ordering pizza.

Computational Intelligence Lab (Fall 2008): Created a speech analysis system for meetings to assess participant mood, interruptions, time talking and other factors. Wrote GTK+ and Web-based interfaces to view results.

Experience

Human-Computer Interaction Institute (CMU) (Pittsburgh, PA) August 2009 to Present
Student Researcher and Software Developer

- Aided with studies concerning user-interface navigation by motor-impaired individuals by writing data-collection, encryption and analysis software.
- Helped develop a Web-based introductory programming course for Open Learning Initiative (OLI).

Johns Hopkins University Applied Physics Laboratory (Laurel, MD) Summer 2009
Software Developer - Technical Services

- Maintained and updated Web-based applications for product lifecycle management and work request systems, helping improve usability, browser compatibility, and standards-compliance.
- Wrote tools to assist in data transfer among existing third-party software and keep modifications up to date.
- Created, built and tested Web-based tools for managing employee training requirements.

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

- Implemented the client- and server-side code for Web site redesigns.
- Worked with templates for eBay stores and created tools for template customization.
- Helped convert old Web page designs to more modern CSS-based layouts.

NASA Goddard Space Flight Center (Greenbelt, MD) Summer 2006
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 to Spring 2007
Database/Web application developer

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

References available upon request.