

Doug Swain

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Employment

Software Forge, Inc. - Student Intern (May 2010 - Present)

- A main developer for Intel® SP_ACE Client/Server project
 - Developed GUI front-end to SPECpower_ssj2008 Benchmark.
 - Helped deploy UPnP back-end to detect server specifications and configure settings for the benchmark.
 - Developed mechanism to launch and monitor SPECpower_ssj2008 benchmark processes for proper start up and shut down.
 - Helped target and repair bugs within the project.
 - Conducted QA testing and regression testing for the product.
- Helped create, update and maintain documentation for the project.
- Performed daily office functions and managerial functions.
- Created unit tests for a custom UPnP Stack implementation.

University of New Hampshire - PAC Consultant (September 2008 - Present)

- Advised students through varieties of programming assignments
 - Explained, corrected & provided examples of programming concepts such as Object Orient Programming, top-down design, system implementation details and algorithms.
 - Demonstrated useful troubleshooting techniques such as using debugging tools, hand-tracing and stack traces.
- Guided students through Linux environments.
- Taught syntax and implementation details of concepts using C, C++ and Java.

University of New Hampshire - Teaching Assistant (September 2009 - May 2010, September 2010 - Present)

- Introduction to Computer Science II
 - Designed assignments and implemented solutions to those assignments for 2nd semester Computer Science majors.
 - Taught a recitation portion of the class teaching concepts such as recursion, basic data structures and object-oriented programming.
- Introduction to Computer Science I
 - Taught a recitation portion of the class teaching concepts such as methods, objects, inheritance, polymorphism, debugging, and syntax of Java.

Defero3, Inc. - Web Development Consultant (February 2010 - May 2010)

- Began the creation of a new web interface to control hotel telephone systems via VoIP.
- Interfaced with OpenSIPS and Asterisks to provide features such as changing of room settings (call waiting, call forwarding, etc) and for allowing the creation of wake up calls.
- Participated in client meetings via online documents and telephone to ensure quality of the product.

Global Online Electronic Services - Web Developer (March 2007 - August 2007, December 2009 - January 2010, June 2008 - August 2008)

- Developed a unified framework for users and administrators of the VoIP system enabling users and administrators to have common, yet unique, interface to the product.
- Redesigned the sign-up process for VoIP through the website <http://voip.goes.com/>.
- Designed a class for handling XML HTTP requests allowing for the purchase of telephone numbers (DID's).
- Redesigned the user invoice and call history PDF files generated on-the-fly for reports.
- Created the initial settings pages (and their interface into Asterisks and OpenSIPS) including voicemail, phone preferences and more.

Global Online Electronic Services - Technical Support/Web Server Administrator (May 2006 - March 2007)

- Configured and maintained ISP's major web server allowing the use of FTP, Front Page, PGP, PHP, MySQL and more.
- Provided support to dial-up and DSL users including email configuration, connection troubleshooting and setup.

Education

University of New Hampshire - Durham, NH (September 2007 - Present, Expected Graduation May 2011)

- Degree: BS Computer Science.
- GPA: 3.0.

Hackettstown High School - Hackettstown, NJ (September 2003 - June 2007)

- GPA: 3.2.

County College of Morris - Randolph, NJ (September 2005 - January 2006)

- Classes: Computer Concepts and Problem-Solving Techniques.
- GPA: 4.0.

Warren County Community College - Washington, NJ (January 2006 - June 2007)

- Classes: Statistics, Chemistry.

Experience/Skills

Operating Systems Used

- Linux (Debian-variants, Arch Linux).
- Windows 95 - Windows 7 (Server 2000 Server 2008).

Proficient Languages

- Java (knowledgeable in Swing).
- C# (knowledgeable in WAML).
- PHP4/PHP5.

Knowledgeable Languages

- C++.
- C.
- HTML/CSS/XML
- BASH (scripting).

Software Tools

- Office Suites: Microsoft Office (XP, 2003, 2007), OpenOffice 3
- Integrated Development Environments: NetBeans (6.9), Visual Studio 2010 (Professional)
- Compilers: gcc/g++/javac (using UNIX-like shells).

Server Technologies

- Microsoft Internet Information Service (ISS - Including Front Page).
- Apache HTTPd Server.
- MySQL.
- SSH.

Activities/Achievements

Leadership Roles

- Marching Band Drumline Section Leader (2006/2007 Season).
- Relay for Life Team Captain at UNH (2010).

Honors

- 10+ College Credits while in High School.
- 2nd highest individual fund raiser (over \$2000) in Relay for Life at UNH (2009).
- Team captain of the #1 fund raising team (over \$3000) in Relay for Life at UNH (2010).
- 40+ miles of the Appalachian Trail Completed (New Jersey section).

Recreational

- Skiing (Alpine, Telemark).
- Biking, Hiking, Jogging.
- Attending concerts and listening to music.