

Andrew Austin

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Objective:

To acquire a position among a team of software engineers that will utilize my current skills and provide opportunity for professional development.

Skills:

C, Python, Django, Perl, Java, JavaScript, Linux, OS X, Apache, SQL

Experience:

Lotus IDC Content and Platforms, Software Engineer Intern, June '09 – December '09

IBM

- Developed web application to automate XSLT transformations using DITA Open Toolkit, Django, Python, and bash scripting, thereby reducing duties of two full time employees.
- Worked with designer to create prototype navigation widget in JavaScript for use on IBM Lotus developerWorks.

Apache & WebSphere Scripting, Software Engineer Intern, Summer '07 & May '08 – December '08

IBM

- Fixed bugs relating to Apache/IBM HTTP Server (IHS) modules using the C language.
- Developed unit tests using Java and jUnit to test Apache and IHS functionality on a wide range of platforms including Windows, AIX, Z/OS, HP-UX, and Linux.
- Wrote and debugged Perl scripts to automate IHS build tasks and provide further testing of various features.
- Debugged IHS and IBM SSL interoperability using tools such as TCPDump and Wireshark.
- Developed tool to parse Dr. Watson logs into concise reports using regular expressions and finite state machines.
- Gained greater insight into the software development process in a Unix/Linux environment through the use of tools such as cvs, make, gdb, and gcc.

Server Inventory Management & Metrics, Software Engineer Intern, Summer '04, '05, & '06

Wachovia Corporation

- Ported existing Unix/Linux auditing software (Perl) to assist in the reporting and collection of data from OS X.
- Used Perl and regular expressions to extract information from command line utilities to assist in data collection.
- Developed KORN shell and batch scripts to assist in automated reporting and testing.
- Wrote documentation of internal processes, especially those relating to the internal server inventory application (such as a detailed manual for end users outlining the step-by-step use of the server inventory application).
- Utilized internal applications to generate reports for asset management and inventory control, including reports for various security remediation initiatives such as Sarbanes Oxley security compliance and internal penetration tests.

Education:

Masters of Science in Computer Science

Research Interest: Software Engineering, and Software Security

Expected: December 2011

Bachelors of Science in Computer Science, Magna Cum Laude

North Carolina State University, August 2006 – December 2009

Mathematics Minor

GPA: 3.69

Computer Science Department Honors Program: (Thesis: Evaluation of Open Source Healthcare Applications)

Senior Design Project: Embedded Interface for Insulin Pump (Requirements Solicitation & Development in C)

Independence High School, August 2002 - June 2006

Class of 2006 Salutatorian

Accolades:

Eagle Scout, Boy Scouts of America

Charles W. Kelly/ISSA Scholarship (2008)

Network+ Certification