

Aaron Massey

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OBJECTIVE

To obtain an engineering position with a focus on legal compliance in software systems that relate to public policy issues such as information security and privacy.

EDUCATION

North Carolina State University, Raleigh, NC

Doctor of Philosophy

Expected May 2011

As a member of ThePrivacyPlace.Org, I am currently researching computer privacy and security topics with a focus on legal regulation compliance to prevent data breaches. I am also researching traceability from legal and policy documents to software requirements for the purposes of demonstrating legal due diligence.

Purdue University, West Lafayette, IN

Bachelor of Science in Computer Engineering

May 2003

During my undergraduate education, I had the pleasure and opportunity to study computer network security with Professor Carla Brodley. Our research included creating a Denial of Service (DoS) attack detector and analyzed how an Intrusion Detection System (IDS) should fail gracefully.

EXPERIENCE

Graduate Research Assistant to Dr. Annie Antón, Raleigh, NC

May 2007 - Dec. 2007

Conducted research in open source electronic health records systems and healthcare information technology standards. Helped prepare Professor Annie Antón's congressional testimony before the House Ways & Means Subcommittee on Social Security (June 21, 2007) as well as her presentation as a panelist at the Federal Trade Commission's workshop entitled "Security in Numbers: SSNs and ID Theft" (Dec. 10-11, 2007).

Software Engineer & System Design Engineer, Advanced Micro Devices, Austin, TX

2003-2006

Authored, debugged, and tested various Linux Device Drivers for the MIPS and x86 embedded processor group. The largest and most complex of these was a dynamic power management driver which allowed for any device to be individually power managed automatically as a part of an overall system policy. I also wrote some object oriented SimNow models for parts of the x86 embedded processor line.

Co-Op Student Intern, Advanced Micro Devices, Austin, TX

Jan. 2001-Aug. 2001

Tested the AMD PowerNow! power management algorithm along with other candidate algorithms. I wrote Linux documentation for upcoming Linux projects. I also wrote, debugged and tested BIOS code in x86 Assembly for customer reference motherboards.

Co-Op Student Intern, Siemens ICN, Boca Raton, FL

Fall 1999 and Summer 2000

Programmed an interface to a Knowledge Support Systems database in Visual Basic. I trained on the use and maintenance of a telephone relay switching system. I also reviewed, tested and edited procedures for troubleshooting and upgrading telephone relay switching systems.

PROFESSIONAL MEMBERSHIPS

Member of The Privacy Place (TPP), a CERIAS Affiliate, since January 2006

Member of the Institute for Electrical and Electronics Engineers (IEEE), since December 2006

Member of the Association for Computing Machinery (ACM), since June 2007

Member of the U.S. Public Policy Committee of the ACM (USACM), since June 2007

References and Contact Information available upon request.

SKILLS

Spoken Languages: English (native), German (4 years)

Computer Languages: C, C++, Java, Python, Ruby, Perl, HTML, bash scripting, MATLAB and FORTRAN 77

Operating Systems: Mac OS X, Linux (Gentoo, Red Hat, SuSE, Ubuntu and Debian), FreeBSD

Architectures: x86, x86-64, MIPS, PowerPC

Development Environments: Eclipse, NetBeans, vim

HONORS & AWARDS

Fessenden-Trott Scholarship Recipient, National Merit Scholarship Recipient, Dean's Engineering Scholar at Purdue University, Semester Honors (Fall 1998, Spring 1998, Fall 1999, and Fall 2001), Two-time World Finalist in the Odyssey of the Mind creative problem solving competition, Ranatra Fusca Award Winner.

HOBBIES & ACTIVITIES

Former Site Admin for the official Gentoo Linux support forums. I have been active in the open source software community since 1999.