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EDUCATION

Graduate:

North Carolina State University *2004 - 2007*

Doctor of Philosophy in Computer Science

- Specializing in automated software engineering techniques and tools for software testing and verification, and software development by exploiting dynamic analysis, static analysis, constraint solving, theorem proving, model checking, data mining, machine learning, and software visualization.
- Cumulative GPA 4.0.

North Carolina State University *2002 - 2004*

Master of Science in Computer Networking

- A degree offered jointly by the departments of Electrical and Computer Engineering, Computer Science, and Business Management.
- Completed a non-thesis option with technical concentration in network software and design.
- Cumulative GPA 4.0.

Undergraduate:

University of North Carolina at Chapel Hill *1998 - 2002*

Bachelor of Science in Computer Science

- Graduated with Honors
- Minor in Information Systems with Distinction from the School of Information and Library Science.
- Cumulative GPA 3.6 and cumulative GPA 3.8 in mathematics, statistics, physics, and computer science courses.
- Dean's List all 8 semesters at UNC.
- Golden Key International Honor Society 2001-2002.

Awards and Special Recognition:

North Carolina State University *2004-05 and 2005-06*

IBM Ph.D. Fellowship

- An annual, worldwide competitive program whose recipients are selected on the basis of research and technical excellences in areas including business, chemistry, computer science, electrical engineering, materials science, mathematics, mechanical engineering, and physics.

University of North Carolina at Chapel Hill *1998 - 2002*

James M. Johnston Scholarship

- UNC's premier need-based scholarships, entering freshmen are chosen to be Johnston Scholars, based on outstanding high school records and leadership potential. Special programs accompany this prestigious scholarship in order to enrich the educational experiences of Johnston Scholars and to bring them together as a group of uniquely talented individuals. Faculty mentors, Johnston Honors Seminars, and special leadership activities are included as part of the Johnston Scholars Program.

EXPERIENCE

Adaptec

Research Triangle Park, NC, June, 2004 - Present

Software Engineer

- Adaptec provides a broad range of computer storage options that simplify storage deployments and allow organizations to easily upgrade to higher levels of capacity, data protection and performance. All Adaptec products use a common management tool to simplify storage administration and reduce related costs.

- The primary function of our software team at RTP is the development and maintenance of this common management tool. Specifically, I concentrate on Java development of the Adaptec Storage Manager GUI using both native and custom swing components.

IBM

Almaden Research Center, San Jose, CA, May, 2005 - August, 2005

Extreme Blue Technical Intern

- As a technical intern on the Real-time Retail Product Promotion (R2P2) Extreme Blue team, my primary responsibilities include the design, specification, and implementation of a real-time promotion offering system designed to be deployed in a physical retail store.
- The success of the project depends on knowledge and utilization of DB2, Cloudscape, Intelligent Miner, SQL, JDBC, JMS, and various web technologies.

MCNC-RDI Electronic and Information Technologies

Research Triangle Park, NC, December, 2001 - June, 2004

Software Engineer

- My main responsibilities include software development to automate various research projects for the US Army Research Lab. Most of these applications require communication with multiple and drastically different pieces of equipment via various IO interfaces (GPIB, serial, USB, Analog/Digital, etc.) at the same time under the control of a single application. I am solely responsible for design and implementation of software applications that handle equipment and data IO as well as GUI design. I work closely with team members to assess their requirements and specifications and usually use a rapid prototyping development design. A large portion of the applications is used for research and development of flexible displays using OLED technology.
- The majority of the software is written in LabView with the use of dynamic-link-libraries, ActiveX controls, and executables written in C++ when low-level or specialized programming is required.

Institute of Government, UNC

Chapel Hill, NC, May, 2001 - December, 2001

Computer Technician

- Computer support for approximately 200 desktop computers, 10 laptops, 200 desktop printers, and 12 network printers
- Duties include but are not limited to: Replacing and recycling old computers (usually with Symantec's Ghost); Basic computer, printer, and related hardware and software support; Network configuration and maintenance; Inventory database design and implementation; Hardware replacement such as hard drives, floppy, zip, and CD drives, power supplies, network, video, and sound cards, motherboards, etc.

The Center for Public Technology and the Rural Internet Access Authority, UNC

Chapel Hill, NC, May, 2001 - August, 2001

Local Government Survey Administrator

- This survey ascertained the level of personnel, network, hardware, and software capacities in individual governmental units in order to help direct funding and assistance to areas of greatest need
- Teams' duties included but not limited to survey administration via telephone interaction; data collection and entry; qualitative and quantitative analysis and expository writing
- Developed analytic skills; understanding of survey design principles; practical application of survey administration; working knowledge of core technology skills, particularly database administration

UNC ATN Classroom Hotline, UNC

Chapel Hill, NC, August, 2000 - May, 2001

Student Employee

- Direct faculty and staff support in the classroom
- Design and build innovative multimedia classrooms and to ensure they are working properly
- Repair and Maintenance of all Multimedia Classroom hardware including but not limited to: desktop PC's, lap tops and related connections, CD and DVD players, text projectors, slide projectors, transparency projectors, dry-erase boards, chalk boards, touch pad control panels, and high resolution video projectors

SKILLS

- Programming Languages: Java, Applets, Swing, JSP, Servlets, C, C++, Perl and CGI, Matlab, Maple, MIPS Assembly, LabView, SQL, SAS, Haskell, Prolog, Python

- Operating Systems: Windows, Unix, AIX, Linux, Mac OS

PUBLICATIONS

- ICSE 06 RD [1] **Automatic Extraction of Abstract-Object-State Machines from Unit-Test Executions**
Tao Xie, Evan Martin, and Hai Yuan.
International Conference on Software Engineering (ICSE), Research Demonstrations, May 2006.
Acceptance ratio: 45.0%(18/40)
- ICSE 06 ER [2] **Understanding Software Application Interfaces via String Analysis**
Evan Martin and Tao Xie.
International Conference on Software Engineering (ICSE), Emerging Results Track, May 2006.
Acceptance ratio: 33.8%(22/65)
- TR 2005 [3] **Experiment and Comparison of Automated Static Code Analyzers and Automated Dynamic Tests**
Evan Martin and Karen Smiley.
Technical Report TR-2005-1, Computer Science Dept. North Carolina State University, Jan. 11, 2005.
- SPIE 03 [4] **Methods of automatic seamless tiling for rapid deployment of projection displays**
M. Lamvik, S. Grego, E. Martin, D. Fox.
Proceedings of Cockpit Displays X SPIE vol 5080, September 2003, pp. 272 - 279.
- IST-SPIE 03 [5] **Rapid automatic alignment of a tiled digital projection system**
M. Lamvik, S. Grego, E. Martin, D. Fox.
IS&T SPIE Electronic Imaging proceedings vol 5002, 2003.

PERSONAL

- Proud father of a young man born 12/28/02
- Birth date: November 15, 1979
- Candidate for the United States Military Academy at West Point, 1998
- I enjoy baseball, water sports, motorcycles, snowboarding, and anything that will challenge both my body and mind because a challenge can only make you stronger.