

Andrew R. Dalton

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EDUCATION

Appalachian State University

Master of Science, Computer Science

Thesis: Parallel Java Compiler: Implementation and Evaluation

Advisor: Dr. Cindy Norris

Boone, North Carolina

Expected Spring 2004

Bachelor of Science, Computer Science, Cum Laude

December 2000

RESEARCH EXPERIENCE

Masters Research, Appalachian State University

August 2003 to Present

Conceptual development, implementation, and evaluation of a Parallel/Distributed compiler for the Java Programming Language

TEACHING EXPERIENCE

Appalachian State University

Graduate Teaching Assistant

Boone, North Carolina

August 2003 to Present

- Instructor of Record for a section of Introduction to Computers
- Taught one lecture and one lab per week
- Developed quizzes and exams to test students' understanding of material taught
- Held weekly office hours for student assistance
- Mentored new Computer Science II lab instructor and served as guest lecturer on selected topics in Computer Science II

Graduate Teaching Assistant

August 2002 to May 2003

- Instructed Computer Science II labs
- Developed and graded lab assignments and programs
- Held weekly office hours for student assistance
- Served as guest lecturer on selected topics

Instructional Assistant

Undergraduate

- Assisted students with assignments for Computer Science II Laboratory, 3 semesters

PROFESSIONAL EXPERIENCE

Nortel Networks

Software Engineer

Research Triangle Park, North Carolina

January 2001 to August 2002

- Development of a Java-based network element manager using Common Object Request Broker Architecture (CORBA) and Simple Network Management Protocol (SNMP)
- Designed and implemented several new features for the element manager
- Mentored new team members on topics related to our application

Software Engineer – Co-Op *May 2000 to August 2000*

- Worked to incorporate legacy trunk maintenance features into new IP based telephony systems using existing Nortel Networks hardware and software

Software Engineer – Co-Op *May 1999 to August 1999*

- Worked to help group members transition from the use of PROTEL to C++
- Assisted in the design of object-oriented software using design patterns
- Used Guru and X-Ray, source code tracking and debugging tools

Software Engineer – Co-Op *January 1998 to August 1998*

- Added the new functionality of variable size messages to the IOLOAD tool
- Debugged and updated Spectrum Human-Machine Interface software by resolving Service Requests
- Developed a tool to track all Service Requests going in and out of my group
- Participated in code design inspections and document reviews
- Wrote an Architectural Design for adding new functionality to an existing product

ABSTRACTS AND PRESENTATIONS

- *Implementation of Integer-Based Wavelets using Java Servlets*; Dalton, Andrew R and Tashakkori, R; Presented at **The 5th Annual Celebration of Student Research and Creative Endeavors**, Appalachian State University, April 24, 2003 and **The 7th World Multiconference on Systemics, Cybernetics, and Informatics**, Orlando FL, July 27 - 30, 2003

ACADEMIC SERVICE

- Presented an introductory Linux network security tutorial as part of the local chapter of the Association for Computing Machinery, November 2003
- Presented an introductory Linux installation tutorial as part of the local chapter of the Association for Computing Machinery, October 2003
- Presented an introductory workshop on the *VIM* text editor, September 2003.
- Department Senator – Appalachian State University Graduate Student Association Senate, 2003-2004. Member of the Rules Committee
- Member of the Web Page Committee – Department of Computer Science, Appalachian State University
- Alumni Representative to the College of Arts and Sciences Academy of Outstanding Teachers Selection Committee, 2002-2003, 2003-2004
- Presenter, Computer Science Department Open House, 2002, 2003
- Assisted Dr. Barry Kurtz with a Java Jumpstart to introduce students to the Java programming language

PROFESSIONAL AFFILIATIONS

- Association for Computing Machinery, Local and International

HONORS

- Recipient of the Appalachian Alumni Scholarship, August 2002
- Outstanding Senior in Computer Science, December 2000