

PANAYIOTIS V. STEELE

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Research Interests

Software Engineering: Software System Safety, Formal Methods

Education

Graduate:

University of Virginia – Charlottesville, VA 22904

August 2010 – Present

Advisor: Dr. John Knight.

Concentration in Computer Science.

Pertinent Coursework: Theory of Computation, Software Engineering, Database Systems, Operating Systems, Statistics for Engineers and Scientists, Computer Architecture, Dependable Computing

Current GPA: 3.910

Undergraduate:

University of Virginia – Charlottesville, VA 22904

August 2006 – May 2010

Bachelor of Science, Computer Science. Minors in Mathematics and Systems Engineering.

Pertinent Coursework: Defense Against the Dark Arts, Web Information Systems Technologies, High Performance Parallel Computing, Computer Networks, Algorithms, Advanced Software Development, Operating Systems, Distributed Computing, Statistics, Numerical Methods, Deterministic Decision Models, Stochastic Decision Models, Management of E-Commerce Systems

Final GPA: 3.652

High School:

Thomas Jefferson High School for Science and Technology – Alexandria, VA 22312

September 2002 – June 2006

Pertinent Coursework: Comparative Programming Languages, Artificial Intelligence

Final GPA: 3.956

Publications

Certification-Based Development of Critical Systems.

P. Steele and J.C. Knight. 34th International Conference on Software Engineering—Doctoral Symposium. Zurich, Switzerland (June 2012), to be published.

ACCESS: A Toolset for Safety Case Creation and Management.

P. Steele, K. Collins, and J.C. Knight. 29th International Systems Safety Conference, Las Vegas, NV. (August 2011)

Avian Migration: Condor-Style Job Submission on Standards-Compliant Grid Systems.

P. Steele, M. Saravo, R. McGrath, A. Grimshaw. University of Virginia Computer Science Department Technical Report CS-2010-10, May 2010. (Undergraduate Thesis.)

Fellowships/Honors

- Awarded Commonwealth Fellowship in Engineering at University of Virginia for September 2010 – August 2011.
- Offered Cunningham Fellowship at Virginia Tech for September 2010 – August 2012.
- University of Virginia Dean's List for Fall 2006 – Spring 2008.
- Member of National Society of Collegiate Scholars (2007 – present).
- Member of Phi Eta Sigma National Honor Fraternity (2007 – present).
- Member of Sigma Alpha Lambda National Honor Fraternity (2007 – present).
- Second place, NRL Science and Engineering Apprenticeship Programs, for “Symbolic Algebra and Visualization Enhancements of a 2D-Visual Programming Environment for Multiphysics Mechatronics Systems Simulation” (2005).

Teaching

Guest Lecturer – CS 3240, “Advanced Software Development Methods”

February 2012

- Taught upper-level computer science students, totaling approximately 100 students, for two lectures. Topic: SCR specifications.

Guest Lecturer – CS 1110, “Introduction to Computer Science”

March 2011

- Taught two sections of the introductory programming class for one lecture, totaling approximately 500 students. Topic: recursion.

Graduate Teaching Assistant – CS 1110, “Introduction to Computer Science”

August 2010 – May 2011

- Administered a lab section with one other teaching assistant. Tasks included introducing the lab's programming assignment to the students (i.e. motivation, what topics it covered, helpful hints, etc.) and answering any questions the students had while completing the assignment.
- Participated in grading the class midterm exams.

Experience

Software Development Engineer in Test Intern – Microsoft Corporation

June – August 2009

- For the Windows Core Component Platform Team, developed an internal test tool that parses and synthesizes failure information received from Watson, storing the important data in an extensible way to allow for much more complex querying than SQL Server Reporting Services is capable of.
- Tool will be used to drastically cut down on time of manual analysis of failure logs for Core Component Platform, Component-Based Servicing, Setup and Migration, and other Windows Deployment and Fundamentals teams, starting in the Windows 8 development process.

College Student Technical Senior Intern – Lockheed Martin MS2: Manassas, VA

May – August 2008

- Evaluated Red Hat GFS's utility for creating a file-sharing system in a production environment that is substantially faster than NFS for Data Storage Department. Data Storage Department provides data storage infrastructure and systems integration for US Navy submarines.
- Contributed to team development of an acoustic command link to EMATT Anti-Submarine Warfare Training system to extend its functionality into other areas, e.g. underwater mine location/destruction.

Research Intern – United States Naval Research Laboratory

June – August 2005

- Developed a module which integrates Mathematica symbolic algebra capabilities with Ptolemy II, a graphical heterogeneous and concurrent modeling/design programming environment.
- The purpose of the module is to model a composite materials testing machine for remote and cost-effective simulation of experiments designed to stress-test composite materials for use by the Navy.

Special Skills

Programming Languages

- Proficient in C#, C++, Java, MATLAB, LaTeX, SQL.
- Some experience in C, Prolog, Python, Perl.

Operating Systems

- Extensive use of Microsoft Windows, Red Hat Enterprise Linux.
- Comfortable with UNIX/Linux (Debian Linux), Macintosh.

Programs

- Experienced in use of Mathematica, Visual Studio 2008, SQL Server 2008
- Some experience in MathCAD.

Miscellaneous

- Fluent in Greek (native speaker), German.