

Nathaniel J. Schwartz
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Objective

To obtain a summer position in software development or in applied mathematics and analysis.

Education

- North Carolina State University
 - ◆ **Ph.D Student in *Mathematics***
 - ◆ Accepted for Fall 2008

- Virginia Commonwealth University
 - ◆ **Bachelor of Science in *Computer Science and Mathematics***
 - ◆ Expected May 2008, GPA 4.0 / 4.0

- Piedmont Virginia Community College
 - ◆ **Associate in Applied Science, *Engineering Specialization***
 - ◆ May 2005, GPA 3.963 / 4.0

Technical Skills

- **Programming Languages:**
 - ◆ Primary: C++, Java
 - ◆ Other: Perl, Scheme, LaTeX, HTML, Qt, OpenGL, JavaScript, Prolog
- **Operating Systems:** GNU/Linux, Unix variants, Windows
- **Software:** VIM, Subversion, GNU Compilers, GNU Debugger, Dreamweaver, Photoshop, AutoCAD

Relevant Coursework

- **Computer Science:** Programming Languages, Algorithm Analysis, Program Design, Operating Systems, Parallel Programming, Computer Graphics, Software Engineering, Theory of Programming Languages, Artificial Intelligence
- **Mathematics:** Multivariate Calculus, Differential Equations, Linear Algebra, Abstract Algebra, Topology, Math Structures, Calculus of Variations w/ Optimal Control, Advanced Calculus I & II

Research Experience

- Mathematical Biology – Pollen Dispersion. May 2007 – Current
 - ◆ Worked with Dr. David Chan (Math) and Dr. Rodney Dyer (Biology) to develop algorithms to model pollen dispersion. Developed scalable software in C++ with GNU tools on Linux to run simulations, reports and calculate statistics.
 - ◆ Presented my research at the TIMBER conference November 2007

Work Experience

- VCU Training & Technical Assistance Center (T/TAC) May 2007 – Current
 - ◆ Web Design: Lead Designer
- Robert Boucheron Architect January 2003 – May 2005
 - ◆ Architectural Drafting: Drafting Technician and Designer
- David C. Blankenbaker, Inc. January 2002 – December 2005
 - ◆ Land Surveying: Field Crew Member & Drafting Technician
- GTS Technologies, Inc. August 1999 – January 2002
 - ◆ Department of Transportation Surveying: Field Crew Supervisor
- Barry E. Lotts, PC May 1997 – August 1999
 - ◆ Land Surveying: Field Crew Chief / Instrument Operator
- Jeff Hiner August 1995 – May 1997
 - ◆ Land Surveying, Field Crew Member

Leadership Experience

- Student Advisory Board to the Dept. of Computer Science December, 2007 – May 2008
 - ◆ President
- GNU/Linux Users Group of VCU 2006 – 2008
 - ◆ President
- PVCC Engineering Club 2003 – 2004
 - ◆ Founder, President
- Phi Theta Kappa Honors Society 2003 – 2004
 - ◆ Vice President

Achievements / Honors

- Outstanding Student of the Year Award in Pure Mathematics 2008
- Dean's Scholar Award – College of Humanities & Sciences 2007 – 2008
- Member of the VCU Honors College 2005 – 2008
- Recipient of VCU Dean's Scholarship 2005 – 2008
- Honors Program at PVCC 2002 – 2005
- Phi Theta Kappa National Honors Society, All USA Academic Team 2005 – 2006
- Eagle Scout 1997