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<http://bamos.io>

INTERESTS	Compiler, mobile, or security research or development in Linux . Seeking a PhD fellowship starting May 2014 or internship from May–August 2014.	
EDUCATION	Virginia Polytechnic Institute and State University <i>B.S. Computer Science, in Honors. Mathematics minor.</i> • Overall GPA: 3.98/4.00	Blacksburg, Virginia August 2011 – May 2014 Major GPA: 4.00/4.00
RESEARCH EXPERIENCE	Virginia Tech Computer Science Department <i>Undergraduate Research Assistant, Advisor - Dr. Layne Watson</i> • Optimization algorithm in Fortran 95 resulting in primary authorship on a conference publication. Systems Software Research Group <i>Undergraduate Research Assistant, Advisor - Dr. Binoy Ravindran</i> • Automatic OpenMP to CUDA translation using C++ and the ROSE compiler framework. • Scala and Bash development in Linux . Magnum Research Group <i>Undergraduate Research Assistant, Advisor - Dr. Jules White</i> • Android malware detection research resulting in primary authorship on a conference publication. • Created a distributed Actor system using Scala for machine learning classification of APKs. • C++ , Make , and Android source development in Linux .	Blacksburg, Virginia January 2013 – Present November 2012 – Present May 2012 – Present
INDUSTRY EXPERIENCE	Qualcomm, Inc. <i>Source Integrity Team Software Intern</i> • js , C++ , and Python development in Linux . Phoenix Integration, Inc. <i>Software Engineer Intern</i> • Industrial software development using VC++ , VC# , Java , Tomcat , JUnit , NUnit , Ant , and Make . Sunapsys, Inc. <i>Network Administrator Intern</i> • Linux server configuration and Bash development.	San Diego, California May 2013 – August 2013 Blacksburg, Virginia May 2012 – August 2012 Vinton, Virginia January 2011 – August 2011
CONFERENCE PUBLICATIONS	• “Applying machine learning classifiers to dynamic Android malware detection at scale.” Brandon Amos , Hamilton Turner, Jules White. <i>IWCMC’13 Security, Trust, and Privacy Symposium</i> . Cagliari, Italy, July 2013. • “Fortran 95 implementation of QNSTOP for global and stochastic optimization.” Brandon Amos , David Easterling, Layne Watson, Brent Castle, Michael Trosset, William Thacker. <i>Submitted</i> .	
SKILLS	Preferred Tools: Linux ^{***} , vim/gdb ^{***} , git ^{***} , Make ^{**} Languages: Bash ^{**} , C/C++ ^{**} , C# [*] , Fortran ^{**} , HTML/CSS [*] , L ^A T _E X ^{**} , Java ^{**} , JavaScript ^{**} , Mathematica ^{**} , PHP [*] , Python ^{***} , R [*] , Scala ^{**}	
HONORS & AWARDS	• Honorable Mention, CRA Outstanding Undergraduate Researcher Award, 2014 • Sophomore Scholar Award, Virginia Tech Computer Science, 2013 ◦ Given to the sophomore in Computer Science with the most outstanding academic record. • Intelligence Community Center of Academic Excellence Scholar, Virginia Tech, 2012–2013 ◦ Merit-based scholarship providing a cyber-security research fellowship. • Engineering Merit Scholarship, Roanoke County Public Schools Education Foundation, 2011 ◦ Merit-based scholarship presented annually to one student in the graduating Engineering class. • Pamplin Leader Scholarship, Virginia Polytechnic Institute and State University, 2011 ◦ Merit-based scholarship presented to one student from each public high school in Virginia.	
PROJECTS	Personal Blog and Website – http://bamos.io • 27 posts across the following tags, listed by highest frequency. Python, Bash, LaTeX, Linux, Scala, Android, Mathematica, C++, Fortran, CUDA GitHub Portfolio – http://github.com/bamos • Hosts code samples, original source code, and patches for open source projects.	July 2012 – Present April 2011 – Present