

brandon amos. r sum .

Phone. (540) 947-1238 Email. bdamos@vt.edu

<http://bamos.github.io>

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| INTERESTS | Compiler, mobile, or security research in Linux . | |
| EDUCATION | Virginia Polytechnic Institute and State University <i>B.S. Computer Science</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> • Implement quasi-Newton stochastic optimization algorithm in Fortran 95 . | Blacksburg, Virginia January 2013 – Present |
| | Systems Software Research Group <i>Undergraduate Research Assistant, Advisor - Dr. Binoy Ravindran</i> • Developed an automatic OpenMP to CUDA translator in C++ with the ROSE compiler framework. • Scala and Bash development in Linux . | Blacksburg, Virginia November 2012 – Present |
| | Magnum Research Group <i>Undergraduate Research Assistant, Advisor - Dr. Jules White</i> • Android malware detection research resulting in primary authorship on a conference publication. • Working on a distributed Actor system using Scala for machine learning classification of APKs. • C++ , Make , and Android source development in Linux . | Blacksburg, Virginia May 2012 – Present |
| INDUSTRY EXPERIENCE | Qualcomm, Inc. <i>Source Integrity Team Software Intern</i> • js , C++ , and Python development in Linux . | San Diego, California May 2013 – August 2013 |
| | Phoenix Integration, Inc. <i>Software Engineer Intern</i> • Industrial software development using VC++ , VC# , Java , Tomcat , JUnit , NUnit , Ant , and Make . | Blacksburg, Virginia May 2012 – August 2012 |
| | Sunapsys, Inc. <i>Network Administrator Intern</i> • Linux server configuration and Bash development. | 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. | |
| 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 ^{**} Exposure [*] – Minimal knowledge ^{**} – Adequate knowledge ^{***} – Maximum knowledge ^{****} | |
| PROJECTS | Personal Blog and Website – http://bamos.github.io • Hosted on GitHub Pages. Uses Markdown for posts and Jekyll for static HTML generation. • 27 posts across the following tags, listed by highest frequency. Python, Bash, LaTeX, Scala, Linux, Android, Fortran, Mathematica, C++, CUDA | July 2012 – Present |
| | GitHub Portfolio – http://github.com/bamos • Hosts code samples, original source code, and patches for open source projects. • 18 original repositories. • 4 forked repositories. | April 2011 – Present |
| HONORS & AWARDS | • 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 that provides a security-based research fellowship. • Engineering 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. | |