

SHRUTARSHI BASU

CONTACT INFORMATION	Apartment #1, 220 North Quarry Street Ithaca, NY 14850	484-284-0854 shr@basus.me http://basus.me
EDUCATION	Cornell University , PhD Program in Computer Science, expected graduation in 2015 Lafayette College , PA <i>Magna Cum Laude</i> in 2011 <ul style="list-style-type: none">• B.S. Electrical and Computer Engineering with Honors• B.A. Computer Science with Honors	
HONORS AND AWARDS	J.J. Ebers Memorial Award, 2011 for “high academic achievement and noteworthy professional interest in the field of electrical engineering.” CRA Undergraduate Outstanding Research Award, 2010 – Honorable Mention James P. Schwar Prize, 2010 awarded to a computer science student on faculty nomination William G. McClean Tau Beta Pi Engineering Prize, 2009 for “an engineering student who has excelled in academics and extracurricular activities during the first three semesters.” Member of Tau Beta Pi (Engineering), Eta Kappa Nu (Electrical and Computer Engineering) and Upsilon Pi Epsilon (Computer Science) Honor Societies	
TECHNICAL SKILLS	Platforms: Linux, Mac OS X, Programming Languages: Python, Ruby, JavaScript, C++, C, Java, OCaml Other tools: Git, Subversion, L ^A T _E X, GNU Make, Bash	
PROFESSIONAL EXPERIENCE	Software Engineering Intern at GrammaTech Inc. <i>May 2011 – August 2011</i> Worked on performance improvements to the CodeSonar static analysis tool. Gained experience in learning, navigating and improving a large C/C++ codebase EXCEL Research Scholar at Lafayette College <i>May 2008 – May 2009, May 2010 – May 2011</i> Worked under Dr. Chun Wai Liew to build a declarative programming interface and modular graphics engine for creating fractal patterns Undergraduate Researcher at Virginia Tech <i>June 2009 – January 2010</i> Worked under Dr. Barbara Ryder researching program representations for blended analysis. Modified existing program analysis tool and used it to analyze real-world Java programs Technical Assistant at Lafayette College Foreign Language Center <i>January 2008 – May 2011</i> Evaluated new software packages for use by foreign language students. Designed web templates for language students and conducted workshops.	
PROJECTS	Freon: A novel network architecture <i>January – May 2012</i> A novel architecture for datacenter network management using end hosts to perform the majority of the packet processing work. A component of the Frenetic project. Proctor: An Actor library for Ruby <i>January – May 2011</i> Threaded, concurrent Actors in Ruby using a prototype-based programming style. Makes extensive use of Ruby’s metaprogramming abilities WimpFi: Wireless Peer-to-peer Communications Network <i>August – December 2010</i> Allows personal computer to communicate via RF-transceivers implemented on FPGAs. Implements a reduced version of the IEEE 802.11g with collision avoidance and exponential backoff. Metaphor: A declarative approach to computational art <i>May 2008 – December 2010</i> Software for visual artists to leverage computational tools. A declarative programming language as an interface to graphical libraries.	