SHRUTARSHI BASU

CONTACT INFORMATION	Apartment #1, 220 North Quarry Street Ithaca, NY 14850	484-284-0854 shr@basus.me http://basus.me

RESEARCH INTERESTS

Applied programming languages and programmable systems.
Principled management and control systems for large-scale networks.

EDUCATION

Cornell University, PhD Program in Computer Science

Lafayette College *Magna Cum Laude* in 2011
- 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

RESEARCH EXPERIENCE

Graduate Research Assistant at Cornell University   *May 2012 – Now*
Working on the Merlin platform for programmable networks. Investigating linguistic abstractions for path management in large scale software-defined networks.

EXCEL Research Scholar at Lafayette College   *May 2008 – May 2009, May 2010 – May 2011*
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   *June 2009 – January 2010*
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

PUBLICATIONS

Managing the Network with Merlin
Robert Soulé, Shrutarshi Basu, Robert Kleinberg, Emin Gün Sirer and Nate Foster.
In *Proceedings of the Twelfth ACM Workshop on Hot Topics in Networks (HotNets-XII), 2013*

Exploring the impact of context sensitivity on blended analysis
Marc Fisher II, Bruno Dufour, **Shrutarshi Basu** and Barbara G. Ryder.
In *Proceedings of the 26th IEEE International Conference on Software Maintenance (ICSM 2010).*

Application of formal grammars to the study of complex patterns and evolving systems
Shrutarshi Basu, Rhodes Baker, Khine Lin.
In *Proceedings of the National Conference on Undergraduate Research, 2009.*

POSTERS AND PRESENTATIONS

Merlin: Unified Management for Diverse Networks
Shrutarshi Basu, Robert Soulé, Robert Kleinberg, Emin Gün Sirer and Nate Foster.
At *The 24th ACM Symposium on Operating Systems Principles (SOSP'13)*, Poster Session

A language-based approach to computational art
Shrutarashi Basu and Chun Wai Liew
At *Off the Beaten Track, 2012* colocated with the 39th ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages