

**Education:**

**Princeton University** **1/2015 - Present**  
Candidate for PhD, Computer Science

**Georgia Institute of Technology, Atlanta, GA** **8/2013 – 12/2014**  
Candidate for PhD, Computer Science,  
**GPA 4.0/4.0**

**Georgia Institute of Technology, Atlanta, GA** **8/2011 – 5/2013**  
Candidate for Master of Science, Electrical and Computers,  
**GPA 3.84/4.0**

**Visvesvaraya Technological University, Belgaum, India** **8/2006 - 6/2010**  
Aggregate Percentage: **82.85% (Rank #1-Department of Telecommunication)**

**Skills:**

- **Programming:** C/C++, PERL, HTML, JAVA, VHDL/Verilog, SQLPlus , PSQL, Python
- **Operating Systems:** MS-windows, UNIX, LINUX

**Experience:**

AT&T Research Labs Bedminster, NJ  
**Summer Student Intern** **5/2014 – 7/2014**

**Project Impact assessment of Self-Organizing Networks in Dynamic Environment**

- Mastered domain-knowledge of metrics impacting service performance of mobile cellular networks.
- Built model for better analysis of service parameters.

Georgia Institute of Technology Atlanta, GA  
**Graduate Research Assistant** **8/2012 – 5/2013**

**Project BISmark:**

- Built scripts to manage large-scale data.
- Developed algorithm to detect network anomaly.
- Analyzed data and drew conclusions based on experimental evaluation.

**Projects:****Networks:**

- Mastered inter-domain BGP routing protocols, Transport Issues and various flavours of TCP, Access Network, Performance Evaluation and introduction to multicasting.
- Mastered wireless network characteristics on existing network protocols, and newer protocols such as protocols for medium access control, scheduling, routing, reliable transport, Mobile IP and introduction to Ad-hoc Networks.
- Introduced to various challenges for wireless sensor networks, studied various protocols for different layers of protocol stack, Cross-layer module, Error-control.

**Operating systems:**

- Implemented a multi-threaded web server for static pages.
- Developed an optimized skeletal web proxy server.
- Designed a distributed proxy server to manipulate data in a computation-intensive way.

**Computer Architecture:**

- Simulated various branch predictors and simulation results matched with theoretical results.

- Implemented Tomasulo algorithm allowing instructions to execute randomly but still maintaining the in-sequence execution.

**Awards and Recognitions:**

- Awarded N2Women best poster presentation award for SIGCOMM conference 2014.
- Awarded N2Women travel grant award for SIGCOMM conference 2014.
- Won 3<sup>rd</sup> place in ACM SIGCOMM Student Research Competition, 2013.
- University 10<sup>th</sup> rank holder in Bachelor's program, India, 2010.
- Telecommunication Engineering Department Topper 2006-2010.

**Conference Proceedings:**

**Characterizing Correlated Latency Anomalies in Broadband Access Networks.** Swati Roy, Nick Feamster.  
*Poster at ACM SIGCOMM 2013.*