# Rajesh Golani

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## EDUCATION

**Master of Science in Computer Science**                 Expected Graduation : December 2014
Stony Brook University, Stony Brook, NY-11790, USA                              GPA: **3.6/4.0**

*Coursework* : Operating System, Analysis of Algorithms, Artificial Intelligence, Fundamentals of Computer Network, Internet Censorship, Wireless and Mobile Networking etc.

**Bachelor of Engineering in Computer Engineering**                     Graduated : June 2011
L.D. College of Engineering, Ahmedabad, India                     **First class with Distinction**

## TECHNICAL SKILLS

| | | |
|---|---|---|
| Languages | : | Java, C#, C++, C |
| Technologies | : | Android, J2EE, ASP.net, REST, jQuery, Spring |
| Tools | : | Visual Studio, Eclipse, GDB, Git, SVN, LaTeX |
| Databases | : | Oracle, MySQL |

## WORK EXPERIENCE

**Software Engineer, Microsoft**                                              *Feb 2014*
*Azure Edge Infrastructure*

- Worked on improving the build-out experience of deploying new Edge nodes to reduce the time and eliminate manual efforts. (C#, Windows Workflow)

- Working towards credentials management of edge devices to ensure the quick rollover in case of compromise. This reduces involved manual effort and time for rollover. (C++, C#)

**SDE Intern, Amazon.com**                                       *May 2014 - Aug 2014*
*Amazon Textbook Rentals*

- Worked towards providing Customer Service Associates with tools to reduce the involvement of SDEs, resulting in increased productivity and savings of ~20 SDE hours per week. (Perl, Java, Oracle)

**Senior Research Aide, CA Technologies, CEWIT, Stony Brook**          *Dec 2013 - Jan 2013*
*Big Data Management Team*

- Worked on a monitoring system for identifying performance bottlenecks and utilization metrics in a distributed environment for managing various cloud-based applications, deployed on diff. clusters running Hadoop and its variants. (Java, REST)

**Assistant Systems Engineer, Tata Consultancy Services**              *Oct 2011 - July 2013*
*Value Added Tax Group*

- Worked on diverse projects for framework team to develop common components for taxation projects of several Indian state governments. (J2EE, HTML, CSS, Javascript, Oracle)

## ACHIEVEMENTS

- Winner of Amazon Global Intern Hackathon 2014
- Awarded Most Impactful Project at Google Hack4HumanityNYC 2014
- Awarded Star of Learners group at Tata Consultancy Services

## Publications

- **Identifying traffic differentiation in mobile networks**
  Arash Molavi Kakhki, Abbas Razaghpanah, Anke Li, Hyungjoon Koo, Rajesh Golani, David Choffnes, Phillipa Gill, Alan Mislove. In Proceedings of the 15th ACM Internet Measurement Conference (IMC'15), Tokyo, Japan, October 2015

## Academic Projects

- **Mobile Traffic Differentiation** (Socket Programming, Android, Wireshark)
  Worked on Android App for detecting Traffic differentiation by ISPs on Cellular data networks using Traffic Record and Replay mechanism. This app can be used by anyone to detect the presence of traffic throttling by their carrier.

- **Face recognition Android app for finding missing people : Google Hack4HumanityNYC** (Android, Python)
  Worked on proof of concept where we developed mobile application that will allow people or rescue personnel to identify missing people using facial recognition.
  Code Repository : https://github.com/ankurmittal/FindME-DisasterManagement

- **SBUnix : CSE506 - Operating Systems** (C, GDB, Qemu)
  Developed a preemptive multitasking kernel for x86-64 architecture with Virtual Memory Management, Page-fault Handling, Syscalls, Shell and VFS support.
  Code Repository : https://github.com/rajesh5310/SBUnix

- **Automated Code Generation** (jQuery UI, jsoup, J2EE)
  Implemented tool for auto-generation of HTML based web-pages using jQuery for front-end, Spring framework and jsoup for business logic. Developed drag-drop interface resulted in significant reduction in code-development time.

- **Porting NFTables to Android** (Wireshark, TCPDump)
  Ported NFTables which were introduced in linux 3.13 to Goldfish 3.10.
  Code Repository : https://bitbucket.org/rajesh_golani/cse508_nftables_porting

- **Wi-Fi Traffic Analysis : CSE570 - Wireless and Mobile Networks** (Wireshark, TCPDump)
  Devised various performance metrics to understand the nature and usage-patterns of IEEE 802.11n Wi-Fi Protocol by analyzing real time network traffic from EAP authenticated Hosts/Access Points and formulated throughput comparison factors(like ChatterBox pairs).