

Rajesh Golani

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EDUCATION

Master of Science in Computer Science

Stony Brook University, Stony Brook, NY-11790, USA

Graduated : December 2014

GPA: **3.6/4.0**

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

Bachelor of Engineering in Computer Engineering

L.D. College of Engineering, Ahmedabad, India

Graduated : June 2011

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, L^AT_EX
Databases : Oracle, MySQL

WORK EXPERIENCE

Software Engineer, Microsoft

Feb 2015 - Present

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 2014

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 different 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 a mobile application that will allow 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 that 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).