

# Rajesh Golani

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## EDUCATION

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### Master of Science in Computer Science

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

Expected Graduation : December 2014

GPA: **3.6/4.0**

### Bachelor of Engineering in Computer Engineering

L.D. College of Engineering, Ahmedabad, India

Graduated : June 2011

**First class with Distinction**

## TECHNICAL SKILLS

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Languages : JAVA, C/C++  
Networking : Socket Programming, Wireshark, TCPDump  
Technologies : Bash, J2EE, Android, HTML5, CSS, AJAX, JDBC, REST, jQuery, Perl, Mason, Octave  
Tools : Vim, GDB, Git, SVN, Eclipse,  $\LaTeX$   
Frameworks : Spring, MVC2, BC4J, ASP.net  
Databases : Oracle, MySQL

## ACADEMIC PROJECTS

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- **Mobile Traffic Differentiation** (Socket Programming, Android, Wireshark) *Spring-2014*  
Working on a project for detecting Traffic differentiation by ISPs on Cellular data networks using Traffic Record and Replay.
- **NDN Simulations on NS3 : CSE534 - Networks** (C, NS3) *Spring-2014*  
Used and modified the ndnSIM module from the NS-3 network simulator to study the performance of a sample NDN architecture under different caching properties and traffic conditions.
- **SBUnix : CSE506 - Operating Systems** (C, GDB, Qemu) *Fall-2013*  
Developed a preemptive multitasking kernel for x86-64 architecture with Virtual Memory Management, Page-fault Handling, Syscalls, Shell and VFS (PCI bus, AHCI sata device controller interfacing and File System calls) support.  
Code Repository : <https://github.com/rajesh5310/SBUnix>
- **Click Modular Router : CSE534 - Networks** (C, Emulab, NS2) *Spring-2014*  
Used a network emulation testbed (emulab), and the click modular router for the performance evaluation of sample network topologies under TCP and UDP.
- **Memory Hot-plugging : CSE506 - Operating Systems** (C, GDB, Qemu) *Fall-2013*  
Modified Linux kernel memory source code for Sysfs that allowed for enabling/disabling memory access from same DRAM instead of default interleaved memory across DRAMs.
- **Wi-Fi Traffic Analysis : CSE570 - Wireless and Mobile Networks** (Wireshark, TCPDump) *Fall-2013*  
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).

## WORK EXPERIENCE

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### SDE Intern

Amazon.com

*May 2014 - Present*

- Part of Amazon Rentals team. Working towards providing Customer Center with tools to reduce the involvement of SDEs in process thus increasing productivity and savings of SDE hours.

### Senior Research Aide (Internship)

CEWIT, Stony Brook, NY

Big Data Management Team

*Dec 2013 - Jan 2013*

- Developed a centralized monitoring systems for identifying performance bottlenecks and utilization metrics in a distributed environment for managing various cloud-based applications, deployed on clusters running Hadoop variants.

### Assistant Systems Engineer

Tata Consultancy Services, Ahmedabad, India

*Oct 2011 - July 2013*

Projects :

- **Code Generator Tool** (jQuery UI, jsoup, Spring)  
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.
- **Persistent Local Storage Application** (HTML5 Local Storage, J2EE, jQuery)  
Constructed a proof-of-concept with subsequent implementation for persistent data storage client application using HTML5 local storage and indexDB which helped to overcome connection-loss issues