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**

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++
Networking	:	Socket Programming, Wireshark, TCPDump
Technologies	:	Bash, J2EE, Android, HTML5, CSS, AJAX, JDBC, REST, jQuery
Tools	:	Vim, GDB, Git, SVN, Eclipse, LaTeX
Frameworks	:	Spring, MVC2, BC4J, ASP.net
Databases	:	Oracle, MySQL

ACADEMIC PROJECTS

- **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**

- **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.

- **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).

- **Campus Connect** (Android, J2EE, MySQL) *Jun-2011*
  Developed an android application for my college which provides a forum based interface for students and faculty. It aided in providing communication platform, Q&A forum and chat interface for users.

WORK EXPERIENCE

Senior Research Aide (Internship) *Dec 2013 - Jan 2013*
CEWIT, Stony Brook, NY
Big Data Management Team

- 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 *Oct 2011 - July 2013*
Tata Consultancy Services, Ahmedabad, India
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.

- **Indian State Government Taxation System** (J2EE, BC4J, Oracle)
  Developed State Government Tax-management and monitoring modules using BC4J framework and Front Controller design pattern. Analyzed and consecutively implemented security measures for the application against different attacks.

- **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

- **System Statistics Dashboard** (Spring, Oracle, jQuery, jQPlot)
  Worked on data-analytic application for State Government of Gujarat (India) Tax department using Spring framework with Oracle database which produces information-rich graphs and charts. Developed complex data-intensive SQL stored procedures for business reports of the application.