

# SANJAY RAJASHEKAR

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## EDUCATION

### Northeastern University, Boston, MA

September 2013 – December 2015

Master of Science in Computer Science

Courses: Program Design Paradigms, Fundamentals of Computer Networking, Algorithms, Information Retrieval, Managing Software Development, Parallel Data Processing with Map Reduce, Web Development

### SJB Institute of Technology, Bangalore, India

August 2009 – June 2013

Bachelor of Engineering in Computer Science

## TECHNICAL SKILLS

Languages: Java, Python, SQL, VBScript  
Web Technologies: HTML5, CSS3, JavaScript, JQuery, SASS, MEAN stack, Knockout  
Operating System: Linux, OS X, Windows  
Tools & Frameworks: Spring, Hibernate, Maven, Eclipse, Git, Bootstrap, Yeoman, Bower, Grunt, Axure RP  
Testing: JUnit, Mockito, Jasmine, TestComplete10, QAComplete, Selenium WebDriver

## WORK EXPERIENCE

### Ahold USA (Stop & Shop NE), Boston, MA

Software Developer Intern

June 2014 – December 2014

- Developed **RESTful web services** using Java, Spring and Hibernate
- Designed and implemented the services to **support iPhone applications** that enabled associates to manage tasks, check prices of products and monitor/audit employees managing billing lanes
- Designed **wireframes** for the Price check application using Axure RP

### SunGard, Salem, NH

QA Intern

June 2015 – August 2015

- Wrote **GUI automation** tests for a product called Loanet
- Modified existing tests to accommodate changes in the grid and refactored the code to promote reuse
- Used Python and **Selenium WebDriver** to explore GUI automation for the product Astec Analytics

## ACADEMIC PROJECTS

- **Simple Search Engine** - Built an **inverted index** of a corpus using python and wrote a program to extract information from the index based on query keywords. Ranked the results by applying scoring functions like TF, TF-IDF and BM-25
- **Rent Easy** - Designed and developed an online real estate portal using the MEAN stack. Used Bootstrap to build elegant responsive layouts
- **Cheating BitTorrent Client** - Designed and implemented a strategy to **blacklist bad peers** and a modified version of the **proportional share** strategy to increase the download speed of a BitTorrent client called Snark
- **Web Crawler** - Implemented a web crawler in Java to gather information from a fake social networking site. Constructed the **HTTP headers** of the packets sent, managed cookie information to log into the website through the program and successfully handled HTTP status codes
- **Raw Sockets** - Used python to **construct TCP/IP and HTTP headers** to download a web page using raw sockets and implemented aspects of TCP such as three-way handshake and connection tear down

## ACTIVITIES

- Completed the **Front End Web Developer** Nanodegree at Udacity
- Built a single page web application using KnockoutJS that displays a Google Map and interesting locations
- Optimized an inefficient web application's JavaScript, CSS and assets delivery, ensuring it runs at 60fps and achieves a PageSpeed score of 90