**Srinivasan Rajappa**

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**EDUCATION:**

**Master of Science**, Computer Science, (Expected June 2016)

**University at Buffalo**, **State University of New York, Buffalo**, NY

**Bachelor of Technology**, Computer Science and Engineering, (May 2012)

**Jaypee University of Eng. and Tech,** Madhya Pradesh, India **GPA 7.3/10.00**

**Programming Languages:** Confident: [C, Java, C++]Familiar: [Python, PL/SQL, R, Elixir]

**WORK EXPERIENCE**

***Teaching Assistant at University at Buffalo***, Buffalo, NY (March, 2016 – Present)

* Teaching Assistant of Dr. Bina Ramamurthy, for the Graduate course [CSE 487/587: Data Intensive Computing](http://www.cse.buffalo.edu/faculty/bina/cse487/spring2016/index.html).
* Prepared tutorial and documentations, covered topics ranging from running applications created in Hadoop and explaining the underlying details.
* Conducted sessions and answered questions in student forums (Piazza) for students facing difficulty in environment setup and application run.

***Software Engineer Intern at Zappos.com***, Buffalo, NY (Co-op Fall 2015)

* Single handedly migrated the database (from MongoDB to MySQL) of many dashboard applications at Zappos.
* Led the process of end to end migration from data dump to data consolidation in the final database.
* Created scripts in Python to extract dumps and used models like Ecto to safely wrap data and feed into new DB.
* Architected and augmented the underlying the new database schema on which the dashboard applications run.

***Software Engineer (Operation Support System) at******Accenture Services Pvt. Ltd.***, Bangalore, INDIA (March 2013 - July 2014)

* Provisioned new telecom services for Wind Italy viz. Telephone number portability, 4G transition & High-Speed Broadband.
* Responsibly handled database of the system for provisioning and validation of network services in real time.
* Installed Oracle applications in remote systems in Italy. Worked with teams on-site to resolve issues on crucial deliverables.
* **Award:** Stellar award for unique and exceptional contribution within the team.

**TECHNICAL PROJECTS [**GitHub - [**https://github.com/srajappa**](https://github.com/srajappa)]

***Remote File sharing Application*** (Computer Networks)

* Created an application that helps user in an internetwork to discover new hosts, send/receive files and view network statistics.
* Implement a peer-peer system where a client would connect to a dedicated server and then perform actions like connect, download, upload etc. **[C]**

***Implemented Distance Vector Routing*** (Computer Networks)

* Developed an application for Network Layer Routers to communicate with each other and create respective forwarding tables with least cost.
* The application simulated network crash, updated network cost between neighboring servers, displayed network router’s forwarding table etc. **[C]**

***Classification of Handwritten Numerals*** (Machine Learning)

* Successfully implemented Machine learning Algorithm to classify handwritten numerals.
* Used Neural Networks and Logistic Regression to train the system.
* Achieved an error rate of 2.5 % and 3.0 % using Neural Networks and Logistic Regression respectively. **[MATLAB]**

***Implementing SQL Query evaluator*** (Database Systems)

* Application that provides results after parsing and evaluating the SQL queries viz. SELECT, PROJECT, JOIN, UNION etc.
* Created a setup to analyze queries and perform operations with respect to a reference relational algebra tree.
* Also worked on process to improve efficiency where in large set of data operations and join operations can be performed in memory constrained environment using algorithms like *external sort, Hash Join* etc.**[Java]**

***Distributed Hash Table based on Chord*** (Distributed Systems)

* Implemented a peer to peer distributed hash table, on android platform.
* The system adopted the Chord protocol providing ring based routing, node partitioning, dynamic node joining. **[Android, Java]**

***Supreme Court-Case Viewer*** (Software Engineering) [Application](https://github.com/bsaptarshi/court-case-viewer)

* Worked with team members to create an android application for displaying daily cause-list posted in Supreme Court.
* Responsible for creating web-scraping scripts to download data from the Supreme Court websites.
* Created the application using PhoneGap thereby creating both web application and Android application.
* Major contribution in creating RESTful APIs to track data available on the Supreme Court of India website.
* Created unit tests and mocking for the project. This was included and mentioned in the documentation for the same. **[HTML/CSS, PHP, JavaScript, Python]**