**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**

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

* Worked on the “Grand central” team, worked with team members to augment and enhance the Grand central application which catered to the requirements for all the employees in the company.
* Created scripts and schemas that helped change the underlying database from NoSQL (Mongo DB) to MySQL.
* Incorporated changes in the database architecture. Wrote or modified more than 500 lines of code in Python, Elixir (Phoenix Web framework).

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

* Served the role for provisioning services for Wind telecom- Operation Support System (OSS).
* Handled database operations for provisioning and validation of network services in real time.
* Took initiative and conducted a web seminar which was attended by 500+ employees worldwide, described the process of provisioning in telecom industry.
* **Award:** Accenture ACE awards for stellar performance.

**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]**

***Simulation of TCP Protocol*** (Computer Networks)

* Simulated the Selective Repeat, Go-back-N (sliding window) and Alternate Bit TCP protocols.
* Performed tests over servers by sending packets and observed the throughput results. **[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]**

***Semantic Labeling on images*** (Computer Vision and Image Processing)

* Extracted features on images and performed classification on a dataset of images comprising of various scenes.
* Used Artificial Neural Networks algorithm to train the system to identify the features and corresponding semantic labels.
* Successfully provided semantic labeling to image data set with an accuracy rate of over 50 %. **[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.
* Created application using Phonegap, and worked on the UI development.
* Used REST APIs to track data available on the Supreme Court of India website. **[HTML/CSS, JavaScript, Python]**