Srinivasan Rajappa

(716) 907-2239 | **srajappa@buffalo.edu** | srajappa.github.io

EDUCATION:

Master of Science, Computer Science, (Expected June 2016)
University at Buffalo, **State University of New York, Buffalo**, NY **GPA 3.01/4.00**

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**]

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

- 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]**

https://www.linkedin.com/pub/srinivasan-rajappa/27/438/602