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.
- Prepared documentation for creating applications in Hadoop MapReduce and running them on Amazon Web Services (AWS).
- Conducted sessions where I cleared doubts of students facing difficulty in running VMs and applications.

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

- Worked on the "Grand central" application, 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 & Oracle DBA at Accenture Services Pvt. Ltd., Bangalore, INDIA (March 2013 - July 2014)

- Served the role of provisioning services for Wind telecom- Operation Support System (OSS).
- Handled database operations 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**]

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

- Worked with team members to create an android application for displaying daily cause-list posted in Supreme Court.
- Created unit tests and mocking for the project. This was included and mentioned in the documentation for the same.
- Used Project Libre software to assign and distribute work to the employees.
- Created the application using PhoneGap thereby creating both web application and Android application.
- Used REST APIs to track data available on the Supreme Court of India website. **[HTML/CSS, JavaScript, Python]**