

Srinivasan Rajappa

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EDUCATION:

Master of Science, Computer Science,
University at Buffalo, State University of New York, Buffalo, NY

(Expected June 2016)

Bachelor of Technology, Computer Science and Engineering,
Jaypee University of Eng. and Tech, Madhya Pradesh, India

(May 2012)
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 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>]

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.
- 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]

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