

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)

SKILLS:

- **Software Languages:** C/C++, Java, Python, PL/SQL, R, Elixir, MATLAB
- **Database:** PostgreSQL, MySQL, MongoDB, Oracle 9i/11c
- **Web & Other Technologies:** Angular.js, JavaScript, HTML, CSS, JSP, AJAX, JSON, XML, TCP/IP
- **Frameworks:** Phoenix Web-framework, Hadoop Framework, Python Django
- **Tools and Operating Systems:** Git, Eclipse, Linux, Windows, Mac

WORK EXPERIENCE

Teaching Assistant of Dr. Bina Ramamurthy (Dept. of Computer Science), University at Buffalo (March, 2016 – Present)

- Prepared tutorials and blogs on topics ranging from Pig, MapReduce, Spark, Ganglia and Hue of the Hadoop eco-system.
- Held sessions for students in class rooms and class forums for resolving issues and clearing doubts.
- **Skills Gained:** running applications on large dataset in AWS, data visualizations for large clusters, design implementation.

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.
- Architected and augmented the underlying database for transition to the new relational database.
- Debugged and created automated scripts to create SQL data dumps and automated tests. Successfully deployed to production.
- **Skills Gained:** creating and debugging SOA created in MVC (Phoenix Webframework), using NoSQL databases.

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.
- Served the role of Database Administrator and stewarded oracle database replications and tune up.
- Part of the team that created applications to simulate the end-to-end provisioning by creating stored procedures, triggers etc.
- Presented a live seminar on role of Operations Support Systems in Telecom industry. Event attendance ~700.

TECHNICAL PROJECTS [GitHub - <https://github.com/srajappa>]

Remote File sharing Application (Computer Networks)

- POSIX style application that allowed systems to join a P2P network and perform transfer of files and texts.
- Tested and debugged by deploying application on five servers. The application is scalable for over 10 devices. [C/gdb]

Classification of Handwritten Numerals (Machine Learning)

- Application to classify handwritten numerals using Artificial Neural Network & Logistic Regression.
- Achieved an error rate of 2.5 % and 3.0 % using Neural Networks and Logistic Regression respectively. [MATLAB]

Implementing SQL Query evaluator (Database Systems)

- Console application that could evaluate SQL DDL and DML statements viz. SELECT, PROJECT, JOIN, UNION etc.
- Added enhancements which enabled the application to run on a constrained memory space.
- **Skills Gained:** using design pattern (Visitor Pattern), TPC-H benchmarking, External Sort, Berkeley DB, jsqlparser etc.[Java]

Mini-DynamoDB (Distributed Systems)

- Implemented Key-value storage system, with the help of several android virtual machines.
- Incorporated data replication for data availability and used Chord protocol for ring based routing and partitioning.
- Application was tested using automated tests and was scalable up to 5 devices.[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]

ACHIEVEMENTS AND AWARDS

- Bronze medalist at Counter Code 2015 hosted by Hackerrank.
- Accenture Stellar award for innovative and exceptional performance for the quarter Jan-March 2014.

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