

# 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. Troubleshot problems.
- 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]

**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]

**Simple Amazon 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]

**Bistro Daily Budget** (Zappos.com)

- POSIX style app that used API endpoint of the canteen at Zappos at Las Vegas to find the dish available and their price.
- Computed the optimum combination of dish available for any particular day for a fixed cost.
- Created a custom parser in C, which saved the data into individual files for every separate date. [C]

**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.
- Created RESTful APIs to monitor the updated data on the Supreme Court of India website.

**University at Buffalo class room Enrollment** (Teaching Assistant)

- Performed data analysis on the class enrollments data at UB since the year 1920. Dataset size ~ 45MB.
- Wrote MapReduce, Pig and Spark programs to perform computations. Computations included finding the rate of change of enrollments per year, finding classrooms that are available any given time etc.
- Create Elastic MapReduce clusters to run the jobs of these programs. Recorded my findings in form of a report.

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