

Srinivasan Rajappa

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

EDUCATION:

Master of Science, Computer Science,

(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

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

(Spring 2016)

- 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 apps 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.
- Implemented run time TCP socket connections using `select()` call.
- 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]

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 web-scraping scripts in PHP to download data from the Supreme Court websites.
- 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.
- Created Elastic MapReduce clusters to run the jobs of these programs. Recorded my findings in form of a report.

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>