**Srinivasan Rajappa**

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**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***](http://www.cse.buffalo.edu/faculty/bina/cse487/spring2016/index.html) ***(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**](https://github.com/srajappa)]

[***Remote File sharing Application***](https://github.com/srajappa/Remote_File_Sharing.git)(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***](https://github.com/srajappa/SQLqueryEvaluator.git)(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, Berkey DB, jsqlparser etc.**[Java]**

[***Simple Amazon DynamoDB***](https://github.com/srajappa/dht.git)(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](https://github.com/bsaptarshi/court-case-viewer)

* 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***](https://github.com/srajappa/UBClassRoomEnrollment.git)(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.