Srinivasan Rajappa

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EDUCATION:

Master of Science, Computer Science, (Expected 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 (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 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, Berkey 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