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, Ruby, Python, Elixir
- ***Web & Other Technologies***: JavaScript, Underscore.js, HTML, CSS, Modal, Bootstrap, AJAX
- ***Frameworks***: Phoenix Web-framework, Hadoop Framework
- ***Tools***: Chef, Chef Automate

WORK EXPERIENCE:

Software Developer Intern at Relevance Lab, San Jose, CA

- Worked on projects to aid the process of Continuous Integration/Continuous Deployment (CICD)
- Developed Chef cookbooks and Terraform plans for Linux and Windows target nodes.
- Practiced and followed Test Driven Development (TDD) to complete projects.
- Wrote scripts and applications to identify components and thus help in the CICD process.
- *Skills Gained*: working with DevOps tools, familiarized with various Linux environments viz. Suse, Redhat

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.
- Created scripts (Python) to convert Collections to SQL data dumps. Successfully deployed the applications to production.
- *Skills Gained:* creating and debugging SOA apps created in MVC (Phoenix Webframework), using NoSQL databases.

PROJECTS [GitHub - **https://github.com/srajappa**] Also [**https://github.com/srajappaRL**]

Migrated Puppet Manifests to Chef Cookbooks [Johnson and Johnson] (Relevance Lab)

- Wrote custom recipes and resources for both Linux and Windows systems. Also wrote few libraries/resources.
- Exposed myself to the practice of TDD by using testing tools like Kitchen, Vagrant and AWS instances.
- Created wrapper cookbooks, also debugged many community cookbooks. Identified and raised issues on Github. [**Ruby**]

Add-ons (Relevance Lab)

- Created Slack bots and Github chat bots to deliver the status of builds of the Chef cookbooks.
- Utilized Jenkins multibranch pipelines and AWS services respectively. [AWS SNS, AWS Lambda]
- Wrote scripts in Python to understand a huge JSON dump and create YML Heat Orchestration Templates. [**Python**]

Facebook Public Page's video aggregator (Hobby Project)

- Created web application that displays video of a public Facebook page. Metadata related to the particular video is also shown.
- The application requires a user to login via facebook, in turn making Graph API requests for videos of a particular page.
- Videos will be appended as the user scrolls to the end of the page.[**Graph API, Javascript, Underscore.js, Modal**]

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**]

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**]

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 among hosts and also console operations using **select()** call.
- Tested and debugged by deploying application on five servers. The application is scalable for over 10 devices. [**C/gdb**]

https://www.linkedin.com/in/srinivasan-rajappa