**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, 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***](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.
* 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**](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](mailto:https://github.com/chef-cookbooks/git/issues/119). **[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](mailto:https://docs.openstack.org/developer/heat/template_guide/hot_guide.html). **[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***](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]**

[***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]**

[***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 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]**