AKSHAY SONVANE

🏠 San Jose, CA   📞 408-816-9498   ✉ akshay.sonvane93@gmail.com

in linkedin.com/in/sonvane   🌐 akshaysonvane.github.io   ⬡ github.com/akshaysonvane

Summary

- Upcoming MSSE graduate, full-stack developer and open-source contributor with close to 2 years of professional software development experience having strong analytical and troubleshooting skills.

Education

M.S. in Software Engineering (Pursuing)	**San Jose State University**	May 2018	GPA- **3.78/4**
B.E. in Computer Science & Engineering	**Babaria Institute of Technology**	April 2015	GPA- **3.89/4**

Skills & Abilities

- Java, Python, JavaScript, Android, C, C++, HTML, PHP, C#
- MongoDB, MySQL, Redis, MS SQL, SQLite
- Docker, REST, Semantic web, Eclipse RDF4J, SPARQL, AWS, EC2, Heroku, Spark, Flask, Django, NodeJS, AngularJS, VueJS, ReactJS, Jenkins, GIT, SVN, JUnit, ASP.NET

Professional Experience

MarkLogic Corporation   **Software Engineer Intern**   **06/2017 - Present**

- Developed an open-sourced semantic library for MarkLogic database to store, search and manage triples/quads using Eclipse RDF4J framework
- Collaborated with open source community and clients to resolve bugs/issues and to deliver the software on-time

eCampus, San Jose State University   **Graduate Student Assistant**   **01/2017 - Present**

- Developing a web app using ArcGIS map to make the campus more accessible to students with mobility issues
- Created a virtual campus for SJSU using ESRI CityEngine for Samsung Gear VR
- Rolled out a LTI app for Canvas Learning Management System to be used by 10,000+ SJSU students
- Reduced the time required for ETL operations by implementing an in-house web scraper (parser)

Compact Softech   **Software Engineer**   **03/2015 - 06/2016**

- Spearheaded the firm's android efforts
- Conceptualized and implemented an Android application having 100K+ Google Play Store downloads
- Led a team of 2 to port the web app over to native Android application

Relevant Projects

RESTful Dockerized Expense management system – *(Python, Flask, Redis, MySQL, RESTful, Docker, Shell script)*

- Developed a RESTful, distributed, scalable and fault-tolerant corporate expense management system.
- Implemented Dynamic Replica Registration and Dynamic load balancing.
- Achieved quick failure detection by implementing Circuit-Breaker design pattern
- Implemented Bulkhead design pattern using data sharding

Where's my number? – *(Java, RESTful, GreenFoot, Amazon AWS)*

- Designed a real-time multiplayer game which teaches the concept of binary search to elementary school kids
- Developed in java using multiple coding design patterns: State, Observer, Strategy, Proxy, Iterator, Singleton
- Followed Agile methodology (Scrum) coupled with XP practices

EveOne – *(MEAN Stack, Heroku, Continuous Integration pipeline, Android, mLab, Google FireBase)*

- Programmed a web and mobile application for school event management
- Incorporated multi-tenant architecture with auto-scaling
- Reduced time taken to organize event by 97%

Augment Linux KVM Hypervisor – *(C, Linux, Virtualization, Kernel Virtual Machine Hypercalls)*

- Developed a modified Linux kernel with an augmented KVM to allow with additional hypercalls to be used as new functionality
- Modified host Linux kernel to add three new instruction hypercalls in the KVM module