

# AKSHAY SONVANE

🏠 Mountain View, CA

☎ 408-816-9498

✉ akshay.sonvane93@gmail.com

🌐 linkedin.com/in/sonvane

🌐 akshaysonvane.github.io

🌐 github.com/akshaysonvane

## Summary

- Full-stack developer, open-source contributor and a certified scrum master, with close to 5 years of professional software development experience having strong analytical and troubleshooting skills.

## Skills

- Java, JavaScript, Python Android, HTML, C, C++
- MarkLogic, MongoDB, MySQL, Redis, MS SQL, SQLite
- Spring, Docker, REST, AWS, Azure, Flask, NodeJS, AngularJS, ReactJS, Swagger, Jenkins, GIT, Junit, Mockito, Cypress

## Professional Experience

**MarkLogic Corporation** **Senior Software Engineer** **06/2017 – Present**

- Designed and developed both on-prem and cloud-native solutions for data integration pipeline, that includes ingestion, curation, exploration and secure access of data
- Led a 7-person scrum team to develop the company's first hybrid cloud native web application
- Involved in all phases of SDLC from requirements gathering to production release

**eCampus, San Jose State University** **Technical Solutions Developer** **01/2017 - 05/2018**

- Developed VR based interactive scenarios using state-machine pattern to be used by USAF ROTC for training cadets
- Created a VR campus for SJSU using ESRI CityEngine

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

- Conceptualized and implemented an Android application having 200K+ Google Play Store downloads
- Spearheaded the firm's Android efforts by leading a 2-person team to port the web app over to native Android app

## Projects

**Hub-Central** – (Java, Spring-Boot, RESTful, JavaScript, ReactJS, AWS, Azure, MarkLogic, Docker, Gradle, RPM, Shell script)

- Implemented the authentication and session management layer, including the core database connection code that is used by all the other features in the application
- Designed and implemented logging, health and restart features that are integral to the cloud service deployment
- Improved search performance by 2x by re-architecting the search feature
- Designed and developed a high-performance CSV export feature

**Data-Hub** – (Java, Spring, JavaScript, XQuery, MarkLogic, Gradle)

- Designed the core functionality of the flow orchestrator by conceiving a task queue for running flows and steps
- Consolidated multiple databases into a single database thereby reducing the number of resources required for backup, replication and maintenance
- Massively reduced the time required to run harmonization tasks on a multi-node cluster by parallelizing requests

**MarkLogic-RDF4J Library** – (Java, Eclipse RDF4J, MarkLogic, Gradle)

- Developed an open-sourced semantic library for MarkLogic database to store, search and manage triples/quads
- Reduced the ingestion time by 6.5x by implementing a multi-threaded client-side parser

**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

## Education

**M.S. in Software Engineering** **San Jose State University** **May 2018** **GPA- 3.76/4**

**B.E. in Computer Science & Engineering** **Babaria Institute of Technology** **April 2015** **GPA- 3.89/4**