

# 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 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

- |  |                                      |                          |
|--|--------------------------------------|--------------------------|
| <b>MarkLogic Corporation</b>   | <b>Senior Software Engineer</b>      | <b>06/2017 – Present</b> |
| <ul style="list-style-type: none"><li>• Designed and developed both on-prem and cloud-native solutions for data integration pipeline, which includes ingestion, curation, exploration, and secure access of data</li><li>• Led a 7-person scrum team to develop the company's first hybrid cloud-native web application</li><li>• Involved in all phases of SDLC from requirements gathering to production release</li></ul> |                                      |                          |
| <b>eCampus, San Jose State University</b>  | <b>Technical Solutions Developer</b> | <b>01/2017 - 05/2018</b> |
| <ul style="list-style-type: none"><li>• Developed VR-based interactive scenarios using a state-machine pattern to be used by USAF ROTC for training cadets</li><li>• Created a VR campus for SJSU using ESRI CityEngine</li></ul>  |                                      |                          |
| <b>Compact Softech</b>   | <b>Software Engineer</b>             | <b>03/2015 - 06/2016</b> |
| <ul style="list-style-type: none"><li>• Conceptualized and implemented an Android application having 200K+ Google Play Store downloads</li><li>• Spearheaded the firm's Android efforts by leading a 2-person team to port the web app over to native Android app</li></ul>  |                                      |                          |

## 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 Framework, JavaScript, XQuery, MarkLogic, Gradle, JUnit)
- 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, JUnit)
- 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

- |   |  |            |                    |
|---|--|------------|--------------------|
| <b>M.S. in Software Engineering</b>               | <b>San Jose State University</b>       | May 2018   | GPA- <b>3.76/4</b> |
| <b>B.E. in Computer Science &amp; Engineering</b> | <b>Babaria Institute of Technology</b> | April 2015 | GPA- <b>3.89/4</b> |