

AKSHAY SONVANE

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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 |
| <ul style="list-style-type: none">• Designed and developed both on-prem and cloud-native solutions for data integration pipeline, which 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 |
| <ul style="list-style-type: none">• Developed VR-based interactive scenarios using a 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 |
| <ul style="list-style-type: none">• 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 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

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| 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 |