Raviraj Indraganti

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EDUCATION

Master of Science in Software Engineering, San Jose State University

Aug 2022 - May 2024

Relevant Coursework: Distributed Systems, Enterprise Application Development, Web UI Designing, Cloud Computing, Software Platforms, Software Systems Engineering and Processes, Data Mining, Design Patterns.

Bachelor of Science in Computer Science, SASTRA University

Jul 2017 - Jun 2021

Relevant Coursework: Data Structures, Object Oriented Programming(OOP), Operating Systems, Database Management, Algorithms, Computer Networks, Machine Learning, Parallel and Distributed Systems, Big Data, Linux Programming.

EXPERIENCE

Software Engineer

Jul 2021 - Jun 2022

Appviewx

Banglore, India

- Collaborated with a team of 6 and engineered Cloud Connector to migrate Appviewx as a multi-tenant SaaS, using Java, Spring Boot, Kafka which increased sales by 35%.
- Created Cloud-DC leveraging AWS, MongoDB, Microservices, Kubernetes slashing cloud resource usage by 40%.
- Leveraged multi-threading to monitor health of Cloud-Connectors using SocketIO, Redis, cron job.
- ullet Designed and integrated 15+ **REST APIs** to Cloud-Connector, collaborated with QA team to ensure reliability.

Software Engineer Intern

Feb 2021 - Jul 2021

Appviewx

Coimbatore, India

- Engineered prerequisite feature which automated 8+ compatibility tests using Linux Scripting, Spring Boot.
- Developed **responsive** Cloud-DC page using **React** and optimized using **pagination** to reduce loading speed by 20%.
- Leveraged **TDD** principles in creating 25+ unit tests using Mockito, Junit, Object-Oriented Programming.

SKILLS

Tools

Programming Languages

Java, JavaScript, TypeScript, C++, Python, Go

Databases

PostgreSQL, MongoDB, Redis, MySQL, DynamoDB

Technologies/Frameworks

REST, gRPC, GraphQL, Web Sockets, SpringBoot, Flask, Node.js, Express.js, Terraform, React, Spark, Kafka, Docker, Kubernetes, Jenkins, Jackson, JUnit, Mockito, Hibernate

Git, Maven, Gradle, JMeter, Postman, AWS, GCP, log4j, IntelliJ, WebStrom, PyCharm

PROJECTS

CanvasCatalyst - a plugin for open-source Canvas LMS

 $\mathrm{Dec}\ 2023$

- Skills: SpringBoot, Spark, Canvas API, multi-threading, Redis, JWT Authentication, AWS.
- Collaborated with a team of 3 to developed a microservice to compare metrics of students using **Spark**, **PostgreSQL**, **Canvas API** and provided campus resource recommendations to student to improve grades by 20%.
- Engineered mastery-grading system to automate letter-grade generation of 5+ grading schemes using Java, React.
- Integrated OAuth and JWT authentication to ensure security and safe handling of sensitive data.

Traffic Violation Repository - a Distributed System

May 2023

- Skills: Distributed Systems, ETL, Raft Consensus, Java, SpringBoot.
- Designed a distributed system to handle 40GB of traffic data using **gRPC** and a mesh topology, achieving enhanced system scalability and interoperability.
- Implemented a data replication mechanism with a factor of 2 using ZooKeeper and Raft, achieving high consistency.
- Developed a query processing module with custom time attribute indexing using distributed query execution, achieving a 40% improvement in search response times.

IoT & Smart Meter Management System

Dec 2022

- Skills: ReactJS, Java, Spring Boot, Cassandra, MySQL, AWS, Docker, Kubernetes, REST APIs, Kafka.
- Led a team of 4 to design and develop a SaaS multi-tenant platform using **React**, **Java** to manage **IoT** devices.
- Implemented CRUD operations for the devices and a user-friendly interface using React, MySQL, GraphQL and integrated billing, payment and analytics services using microservices.
- Employed AWS Load Balancing, AWS CloudWatch, AWS EC2, Auto Scaling, AWS S3 to achieve high reliability.

LEADERSHIP

President - Math Club@SASTRA, a club for conducting Math related events and **problem-solving**.Jan 2018 - May 2021 **Head** of Telugu Sahithi Samithi, SASTRA University, a cultural club for Telugu-speaking people. Jan 2020 - May 2021