Jaineil Hemant Mandavia

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EDUCATION

Master of Science in Software Engineering

San Jose State University, United States, GPA: 3.74/4.0

Aug 2021 - May 2023

Bachelor of Engineering in Computer Engineering

University of Mumbai, India, GPA: 3.5/4.0

Aug 2016 - Oct 2020

EXPERIENCE

Software Engineer Intern at Sikka Software | San Jose, CA Technology stack: AWS, CI/CD, Docker, Kubernetes, Rust, YAML

Dec 2022 - May 2023

- Built Continuous Deployment GitHub Actions workflow to build and push Docker images of Data Science services on AWS ECR
- Deployed these Data Science services on Kubernetes using AWS EKS with Ingress controller as a custom load balancer
- Implemented AWS Lambda endpoint in Rust to build connector for pushing formatted error logs to AWS SQS

Software Engineer Intern at Coursera, Inc. | Mountain View, CA Technology stack: Java, Spring Boot, gRPC, JUnit

May 2022 – Aug 2022

- Implemented custom cache-aside with TTL in Java to manage periodic updates to the demo admin list for enterprise platform
- Designed an optimal and extensible code migration for all business use cases for user setting [tier 1] microservice from Scala to Java Spring Boot
- Wrote and maintained scalable Java Spring Boot gRPC services to efficiently load and store user settings, impacting ~90 million registered users
- Deployed all production traffic to new Java Spring Boot services reducing tech debt by 5%

Software Engineer at Cerebranium GmbH | Mumbai, India

Jul 2020 - Jun 2021

Technology stack: Python, TypeScript, Node.js, AWS Lambda, AWS EC2, MongoDB

- Built **AWS Lambda** batch-processing job to automate fetching of video data in batches, spawning of **AWS EC2** instances, and configuring **Docker** scripts to run the Computer Vision pipeline on the data
- Scaled the batch-processing job to dynamically handle load of up to 7000 videos per day into the Computer Vision pipeline
- Leveraged multiprocessing in Python to execute video analysis in parallel for optimal GPU utilization on AWS EC2
- Developed the entire suite of REST APIs in Clean Architecture for mobile backend using Node.js in TypeScript and MongoDB

PROJECTS

Cloud Event Center [GitHub]

Apr 2022 – May 2022

- Built a web application for online event management with key features viz. event scheduling, event forums, pre-event and inevent messaging, notifications, reviews, and a score-based reputation system
- Developed a full-stack application with a strong focus on Java Spring, Aspect Oriented Programming, MVC, ORM

Indeed.com Web App Prototype [GitHub]

Oct 2021 – Dec 2021

- Built a simulation of Indeed.com web application by designing a cloud-native, auto-scaling, load-balanced, internet-scale
 application that was deployed on AWS
- Developed a full-stack application with a strong focus on system design, real-time analytics, distributed messaging queues using **Apache Kafka**, caching using **Redis**

TECHNICAL SKILLS

- Programming languages: Python, Java, JavaScript (ES6), TypeScript (ES6), Rust
- Databases: MySQL, PostgreSQL, MongoDB, Redis, Firebase Firestore
- Web frameworks & libraries: Node.js, Spring Boot, Hibernate, Spring Data JPA, gRPC, Flask, React.js, JUnit
- Cloud: AWS (EC2, ELB, RDS, ECS, EKS, S3), Docker, Kubernetes, YAML, Apache Kafka