

MOHIT REDDY

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SUMMARY

Software Engineer specializing in Java/Spring Boot backend development and cloud-native delivery on AWS, with strong foundations in data structures, algorithms, and object-oriented design. I've shipped production features across microservices and full-stack systems improving reliability and performance through API design, caching, query optimization, CI/CD, and Kubernetes/Docker deployments. Currently pursuing an MS in Software Engineering at San Jose State University (expected 2027) and seeking backend, platform, or full-stack roles where I can build scalable services and improve system performance and operability.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL, Bash, C, C++

Backend: Spring Boot, Node.js, REST APIs, Microservices, JUnit, Mockito, Kafka

Frontend & Databases: React.js, HTML/CSS, Bootstrap, MySQL, PostgreSQL, MongoDB, DynamoDB

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, IAM, CloudWatch), Docker, Kubernetes, Git, GitHub, GitLab, CI/CD Pipelines

EXPERIENCE

Sunwest Consulting Pvt. Ltd.

Jun 2024 – Jun 2025

Software Engineering Intern

- Refactored **OpsFlow**, an **internal workflow management application** used to automate and track multi-step business processes, from a monolithic architecture into **Spring Boot microservices**, reducing peak-time downtime by **20%**.
- Designed and maintained **RESTful APIs** for workflow execution, user management, and role-based access control, and collaborated on a **responsive Angular frontend** to improve usability and operational efficiency.
- Improved system performance by implementing **Redis-based caching** for frequently accessed workflow data and optimizing slow SQL queries, reducing average API response times by **25–30%**.
- Containerized backend services using **Docker** and deployed them on **Kubernetes**, enabling consistent deployments and improving service reliability across environments.
- Contributed to **CI/CD pipelines** (GitHub Actions/Jenkins), performed peer code reviews, and followed Agile practices to support reliable and frequent production releases.

VCS IT Solutions Pvt. Ltd.

Sep 2023 – Mar 2024

Java Full Stack Developer

- Developed and deployed a **Spring Boot + React Employee Management** System that reduced manual HR processes by **30%** and improved data accuracy for 5+ internal teams.
- Built and optimized **15+ secure REST APIs** for CRUD operations, authentication, and RBAC, improving backend response times by **20%** through efficient query tuning and caching.
- Enhanced the UI with real-time search, dynamic filtering, and PDF export, increasing usability and internal adoption during rollout.
- Improved code reliability by writing **50+ unit and integration tests** using JUnit, Mockito, and RTL, reducing regression issues across feature releases.
- Collaborated with cross-functional Agile teams to deliver iterative features, contributing to consistent sprint velocity and on-time releases.

PROJECTS

Alumni Portal with RAG Integration | Python, LangChain, ChromaDB, FAISS, Streamlit

Jan 2025 – Apr 2025

- Built an AI-driven alumni portal using **Python and LangChain**, integrated with ChromaDB and FAISS, enabling accurate real-time responses via a Retrieval-Augmented Generation (RAG) workflow.
- Designed an end-to-end pipeline for intelligent retrieval, improving response relevance and reducing hallucinations through optimized chunking and embedding strategies.
- Developed a user-friendly **Streamlit UI** to support alumni queries, knowledge sharing, and digital interaction, boosting usability and engagement.
- Containerized and deployed the solution for scalable access, ensuring low-latency interactions across sessions.

Spartan Exchange | React, Spring Boot, PostgreSQL, Docker, AWS, JWT

Sep 2025 – Dec 2025

- Developed a campus marketplace using React, Spring Boot, and PostgreSQL, achieving **25%** higher user interaction during pilot testing (sign-ups, item listings, daily activity).
- Implemented **NLP-based semantic search** using vector embeddings, improving search relevance by **20%**, measured via click-through analytics and structured user surveys.
- Containerized backend microservices with **Docker** and secured them with **JWT authentication**, reducing deployment time by **35%** and achieving **98%** uptime monitored via AWS CloudWatch.
- Optimized database queries and caching to improve platform responsiveness and reliability for active student users.

EDUCATION

San Jose State University

Aug 2025 – May 2027 (Expected)

Master of Science, Software Engineering (GPA: 3.8)

San Jose, CA

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Distributed Systems, Software Systems Engineering, Enterprise Software Platforms, Data Mining, Software Engineering Processes, Software Security Technologies

CVR College of Engineering

Nov 2021 – Apr 2025

Bachelor of Technology, Computer Science (GPA: 3.6)

Hyderabad, India

CERTIFICATIONS

Google Cybersecurity (Coursera) • Google AI/ML Virtual Internship • AWS Academy Cloud Foundations