

Mohit Reddy Amanaganti

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Summary

Graduate student in Software Engineering skilled in Java, Python, JavaScript, Spring Boot, and React, with experience in full-stack development, RESTful APIs, and microservices. Certified AWS Cloud Practitioner with hands-on expertise in AWS, Azure, Docker, Kubernetes, CI/CD pipelines, and Agile development. Built and deployed AI, cloud, and data-driven applications, including a RAG-based Alumni Portal and an NLP-powered campus marketplace (Spartan Exchange).

Skills

Programming Languages: Python, Java, JavaScript, C, C++, Go, Bash/Shell, TypeScript

Databases: MySQL, PostgreSQL, MongoDB, DynamoDB, AWS RDS

Frontend Technologies: HTML, CSS, JavaScript, React.js, Bootstrap, Axios

DevOps: Docker, Kubernetes

Version Control and CI/CD: Git, GitHub, GitLab, Jenkins, CI/CD Pipelines

Backend Technologies: Node.js, Flask, Spring Boot, JUnit, Kafka

APIs and Integration: REST APIs

Cloud: AWS(EC2, Lambda, S3, VPC, ELB, IAM, CloudTrail, CloudWatch, ECS, EKS, Athena), Microsoft Azure

Work Experience

VCS IT Solutions Pvt. Ltd. | *Java Full Stack Developer*

September 2023 - March 2024

- Engineered and deployed a full-stack Employee Management System leveraging **Java (Spring Boot)**, **React.js**, and **MySQL**, streamlining employee data operations and improving HR efficiency by **30%**.
- Developed secure and scalable **RESTful APIs** for CRUD operations, authentication, and **role-based access control**, ensuring robust backend performance.
- Designed and optimized responsive UI with **React**, **Axios**, and **Bootstrap**, enabling real-time search, filtering, and PDF functionality.
- Strengthened code quality with unit & integration testing (**JUnit**, **Mockito**, **React Testing Library**) and collaborated in an Agile environment for iterative feature delivery.

Sunwest Consulting Pvt. Ltd. | *Software Engineering Intern*

June 2024 - June 2025

- Developed a large-scale application into independent modules using **Spring Boot**, **Docker**, and **Kubernetes**, enhancing scalability and reducing downtime by 20%.
- Designed and developed **RESTful APIs** and implemented a responsive **Angular** frontend for seamless user access.
- Optimized application performance by implementing **caching strategies** and **database query tuning**, improving response times and user experience.
- Enhanced development workflows by implementing **CI/CD pipelines**, collaborating in **Agile** teams, and conducting peer reviews using **Git**.

Education

San Jose State University | Master of Science, Software Engineering (3.8 CGPA)

Aug 2025 – May 2027

Cvr College of Engineering, India | Bachelor of Technology, Computer Science (3.6 CGPA)

Nov 2021 - April 2025

Projects

Alumni Portal with RAG Integration: AI-Powered Alumni Engagement Platform:

- Developed an AI-driven Alumni Portal using **Python**, **Streamlit**, and **LangChain** integrated with **ChromaDB** and **FAISS** to deliver accurate, real-time responses through a **Retrieval-Augmented Generation (RAG) model**.
- Built a scalable pipeline for intelligent information retrieval and personalized alumni interactions, ensuring high-quality responses.
- Deployed the system with a **Streamlit-based UI** to enable seamless digital communication, knowledge sharing, and enhanced alumni connectivity.

Spartan Exchange: Full-Stack, Cloud-Deployed Campus Exchange System

- Developed a full-stack campus marketplace using **React**, **Spring Boot**, and **PostgreSQL**, achieving **25% higher user interaction** during pilot tests based on sign-ups, item listings, and daily active usage.
- Implemented **NLP-based semantic search**, improving search relevance by **20%**, measured via click-through on top search results and a structured user feedback survey.
- Enhanced platform reliability and deployment speed with **Dockerized microservices** and **JWT authentication**, reducing deployment time by **35%** and maintaining **98% uptime**, tracked using **AWS CloudWatch** and CI/CD logs.

Achievements and Certifications

- Google Cybersecurity (Coursera)
- AI/ML Virtual Internship – Google for Developers
- Full Stack Development – Apna College
- Coding 101 – Smart Interviews
- AWS Academy Graduate – AWS Academy Cloud Foundations