

# Raviteja Reddy Maruri

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## EDUCATION

### California State University, Long Beach

*Master of Science in Computer Science*

Long Beach, CA

Jan. 2023 – Dec. 2024

- Cumulative GPA: 3.6/4
- Coursework: Distributed Computing, Data Structures, Object-oriented Analysis and Design, Software Engineering, Machine Learning

### Gandhi Institute of Technology and Management

*Bachelor of Technology in Computer Science*

Visakhapatnam, India

Aug. 2017 – Apr. 2021

- Cumulative GPA: 3.43/4
- Achievements: Recipient of Dean's List and Scholarship for Semester II, III, IV, V & VI respectively.
- Coursework: Programming with JAVA, Web Technologies, Cloud Computing, Big Data Analytics, Machine Learning, Software Engineering, Database Management Systems, Unified Modeling Language, Operating Systems, Computer Networks, Compiler Design, Data Mining and Data Warehousing, Design and Analysis of Algorithms

## SUMMARY

Experienced **Java Full Stack Developer** specializing in **Spring Boot, Microservices, React.js, and AWS**. Proficient in designing **scalable, high-performance applications** using **CI/CD pipelines, containerization (Docker, Kubernetes), and cloud services**. Expertise in **RESTful APIs, authentication (OAuth2, JWT), and distributed systems**. Passionate about **optimizing performance, security, and automation** to drive business value.

## EXPERIENCE

### Software Development Engineer

*Cognizant Technology Solutions Pvt. Ltd*

Aug. 2021 – Dec. 2022

Hyderabad, India

- Implemented REST APIs as **Spring Boot Microservices** to perform modular functionality as per **Microservices** architecture. Expertise in **Apache Kafka** message implementations and their integrations with the systems.
- Created a data model for structuring and storing the data efficiently and implemented partitioning and bucketing of tables in **Cassandra**. Involved in writing **Java** API for Amazon Lambda to manage some of the **AWS** services.
- Used **Node.js** to run Grunt tasks and properly build the project (compile, minify, concat etc.) and Implement modules into to integrate with designs and requirements. Used Grunts, BowerJS, Express from **Node.js**.
- Used **Jenkins** as a build tool for **CI/CD** (Continuous Integration and continuous deployment) process. Consumed **Web Services** by implementing **Spring** REST support is to make the development of **RESTful** Web services.
- Built applications using **React** with ES6 which allowed us to render pages on both the client and server using the same codebase, and developed web and mobile applications using ES6 features and frameworks such as **React, React-Native** and **Redux**. Developed various screens for the front end using **ReactJS** and used various predefined components from **NPM** (Node Package Manager).
- Used **Java 8 lambda expressions** and the **Stream API** to handle data collections more functionally and declaratively. Development in several shell scripts, **MySQL** & involved in designing invoking of all forms of data using validation service using **SQL** Server. Developed interactive web application using **Node Js** a purejavascript application framework.
- Created and triggered automated builds and continuous deployments using **Jenkins/looper** and **OneOps** cloud.
- Troubleshoot business and production support issues using monitoring and alerting tools like **Splunk, PagerDuty** and **Medusa**. Responsible for unit, functional, integration, and automated back-end **API** testing for all new software features and enhancements using **JUnit** and **TestNG** framework.
- Leveraged an open-source library to add custom metrics to measure the behaviour of applications in production.
- Developed strategies for internal security to the projects using **Spring Security** and **Spring Boot**.
- Integrated **Spring** and **Hibernate** framework to develop end-to-end application. Used **J2EE** and Enterprise design patterns like **MVC, font controller, business delegate, data access object, value object**, etc.
- Building and maintaining **Docker** container clusters managed by **Kubernetes on GCP**, using **Linux, Bash, Git**, and **Docker**. Utilized Kubernetes and Docker for the runtime environment of the **CI/CD system** to build, test deploy. Worked with **Kafka Zookeeper** to manage the cluster with broker/cluster technology.
- Installed Pivotal Cloud Foundry on **EC2** to manage the containers created by Pivotal Cloud Foundry (PCF).
- Used **Kubernetes** to orchestrate the deployment, scaling, and management of **Docker** containers.

### Full-Stack Developer

*Legacy Health*

Mar. 2020 – Jul. 2021

Bangalore, India

- Developed business applications using **Spring Boot** and **Java 11**, creating secure **RESTful APIs** with **JWT** and **OAuth 2.0**, enhancing data interaction and security.
- Automated **CI/CD** pipelines using **AWS**, integrating **SonarQube** for code quality checks, employing **JUnit** and **Mockito** for rigorous testing, thereby optimizing software reliability.

- Deployed full-stack applications on **AWS (EC2, RDS, S3)** using **Terraform**, enhancing deployment processes with scalable and responsive systems using **React.js** and **Redux**.
- Monitored production systems with **Prometheus** and **Grafana**, setting up alerts and dashboards to ensure application performance and uptime.
- Achieved 30% improvements in system efficiency and 40% reductions in deployment time through optimized automation and cloud infrastructure solutions.
- Applied **Agile software development** practices to effectively align software solutions with business needs and user requirements.
- Provided operational support for maintaining and designing scalable, layout solutions utilizing **Object Oriented Programming**.

## PROJECTS

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### **Portfolio Management System - Microservices Architecture** | *Spring Boot, Spring Cloud, JWT*

*H2 Database, Data JPA, OpenFeign, Swagger, Spring Security, Junit*

Aug. 2021

- Developed a Spring Boot microservices portfolio system for real-time investment tracking and asset valuation.
- Built 5 independent microservices utilizing Spring Cloud and OpenFeign, enabling seamless customer portfolio management and market data integration.
- Developed secure authentication system with JWT and Spring Security, integrated with H2 Database for efficient data persistence.
- Created RESTful APIs with Swagger documentation for mutual fund NAV calculation and share price tracking, ensuring robust portfolio valuation.
- Demonstrated managerial skills by coordinating with team members to deliver high-quality microservices.
- Showcased an ambitious approach to integrating cutting-edge technologies for system optimization.

### **Failover-First Load Balancer with Health Check Prioritization Using Kubernetes** | *Python, Node.js*

Sep. 2024

- Designed and deployed a Node.js application using Express for handling core traffic requests, incorporating configurable health endpoints for real-time monitoring, and achieving high availability with primary, secondary, and failover instances in a Kubernetes environment.
- Developed a custom health checker using Python and Kubernetes client API, automating pod health verification and updating a ConfigMap via a CronJob scheduler, enhancing traffic routing accuracy and system resiliency.
- Implemented a Locust-based load testing framework to simulate distributed user traffic with health-based routing, leveraging dynamic ConfigMap updates for real-time traffic distribution and fault tolerance optimization.
- Focused on building business operations logic to optimize service availability and efficiency.

### **AI-Generated Email Reply with Gmail Integration** | *React, Spring Boot, Chrome Extensions, Gemini API*

Jan. 2025

- Developed a full-stack application using React and Spring Boot, enabling users to generate AI-powered email replies by integrating the Gemini API for seamless communication.
- Designed and implemented a Chrome extension to integrate AI-generated email replies directly into Gmail, adding a custom “AI Reply” button for one-click responses.
- Engineered a responsive UI with Material-UI, incorporating dark/light mode toggles, tone selection, and a clipboard copy feature for an enhanced user experience.
- Built secure and scalable RESTful APIs to handle email content processing, ensuring efficient backend communication and seamless interaction with the frontend and Chrome extension.

## TECHNICAL SKILLS

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**Languages:** Java (8+), JavaScript (ES6+), TypeScript, Python

**Backend:** Spring Boot, Spring Cloud, Hibernate, JPA, RESTful APIs, Microservices, Node.js

**Frontend:** React.js, Redux, Angular, HTML, CSS, Bootstrap, Material-UI

**Cloud Services:** AWS (EC2, S3, Lambda, RDS), Kubernetes, Docker, Terraform, Jenkins, GitHub Actions

**Databases:** MySQL, PostgreSQL, MongoDB, Cassandra, SQL Server, DB2

**Development Practices:** Java Full Stack, System design, Agile methodologies, CI/CD, Algorithm design, Web App Development, RESTful APIs, OAuth, JWT, WebSockets, Tailwind CSS, UI Test Automation

**Data Structures:** Python

**Messaging & Caching:** Apache Kafka, RabbitMQ, Redis

**Testing & Tools:** JUnit, Mockito, Selenium, Postman, SonarQube, Git

**Soft Skills:** Customer-centric, Problem-solving, Reliability, Creative, Communication skills, Management