**Rakesh Reddy M  | Backend Developer |** mreddy3@toromail.csudh.edu

**LinkedIn :** linkedin.com/in/rakesh-reddy-51588a202  **GitHub :** github.com/JamesJava42 **Website :** View My Profile

## About Me:

Experienced Backend Developer with expertise in **full-stack development technologies**, cloud computing, DevOps, and Product Development. Currently pursuing an MS in computer science at **California State University, Dominguez Hills** (CSUDH), I am diligent and more enthusiastic in **research and development (R&D)** and willing to join innovative projects. With strong proficiency in **DevOps practices and automated testing**. I have successfully built and released production-ready applications using **Spring Boot, MySQL, CI/CD, Docker, Kubernetes, and Bitbucket Pipelines**

## PROJECTS

**Scalable Online Shopping System[Link]**

- Secure user **authentication and authorization** were designed and implemented using **OAuth2**, which provided **role-based access control** for better security.

- Deployed the platform on **AWS EC2 with Elastic Load Balancer (ELB)** for traffic distribution and **Amazon RDS** for efficient relational database management; utilized **AWS S3 for static asset storage** and **AWS CloudWatch** for performance monitoring.

- Microservices in containers were **orchestrated using Docker and Kubernetes** for scalability and fault tolerance. Additionally, deployment processes were automated by setting up **CI/CD pipelines using Jenkins and Bitbucket** for continuous integration and seamless updates.

**Real-Time Stock Control Systems[Link]**

- AWS EC2 utilized **Docker and Kubernetes** to configure a fault tolerant and highly available system, along with **JSON Web Tokens (JWT)** for enabling secure **role-based access control.**

- Optimized database performance with **Spring Data JPA, reducing latency and efficiently handling stock updates**; developed RESTful APIs for reliable inter-service communication.

- Leveraged **Apache Kafka** for real-time **event-driven architecture**, ensuring seamless data flow and system responsiveness

**Academic Profile Portal[Link]**

- Led the creation of a secure profile management system with **OAuth2-based** authentication and role-based access control, thus ensuring **controlled access and data security**.

- Real-time **filtering and searching** of professor profiles were achieved by utilizing **Spring Boot and Angular**, thus making it more user-friendly and accessible.

- The application was launched on **AWS EC2 using Docker and Kubernetes** for improved scalability. The **MySQL database schema** was also optimized for better **query performance and data consistency**.

## EXPERIENCE

**Technical Developer | CSUDH**                                                    **Sep,2023 - present**

- Collaborated with clients **to plan, develop, and test** tailored web applications in a bid to meet business needs as well as user requirements.

- I organized **Agile sprints by utilizing JIRA**, thus promoting open communication and transparency for the project; I controlled versions and repositories via **Git to enable seamless** coordination among members.

- Maintained **software quality** by conducting thorough **unit, integration**, and user acceptance testing (UAT); coordinated **periodic releases and bug fixes** to meet and exceed user expectations.

LinkedIn                                                GitHub                                                MyProfile

**Backend Developer | Vanna Infotech**                                April,2021 – July,2023

- **Scalable microservices** were designed and developed with **Spring Boot, Go, and Apache Kafka**, thus providing high availability and enabling smooth interaction between distributed systems.
- Implemented CI/CD pipelines with **Jenkins and Terraform**, reducing deployment time by 40%; enhanced application security with **OAuth2, JWT, and role-based access control (RBAC).**
- Optimized application performance with **advanced SQL queries and Redis caching**, improving data processing speed by 30%; utilized **TDD with JUnit and Selenium** for comprehensive test coverage.
- Mangeing the End-End Testing in Test Containers for Dockerized Container DB and involve the performance test with JMeter.
- **Implemented interactive components** based on design principles**, cognitive task analysis (CTA), and Figma for UI/UX.**
- For real time monitoring the Microservices **integrated Grafana/Prometheus which** make reduce downtime to 25%.
- Worked in collaboration with cross-functional groups of front-end developers, designers, and DevOps engineers to provide functionality using **Agile (Scrum) methodologies**.

## CERTIFICATIONS

- **Certified Kubernetes Application Developer (CKAD)**
- **AWS Certified Developer – Associate**
- **Google Cloud Digital Leader Certification**
- **Advanced Java Programming & Spring Framework**
- **MySQL Database Management System (DBMS)**

## SKILLS

| | |
|---|---|
| **Cloud Platforms** | **AWS**:  EC2, S3, RDS, Lambda, CloudFormation, <br> **GCP**:  Compute Engine, Cloud Storage, Kubernetes Engine |
| **Development Practices** | Agile, Scrum, DevOps, TDD <br> CI/CD(Jenkins, Terraform, AWS Code Build, Bitbucket Pipelines) |
| **Programming Languages** | Java, Python, JavaScript, C, C++ |
| **Frameworks** | Spring Boot, AngularJS, Spring Security, Node.js, React |
| **DBMS:** | MySQL, PostgreSQL, MongoDB, Redis, Oracle |
| **Containerization:** | Docker, Kubernetes, Helm, OpenShift |
| **Testing Tools:** | JUnit, Mockito, Selenium, Cucumber, Postman, SonarQube |
| **API Development:** | RESTful APIs, Swagger, SOAP |
| **Message Brokering:** | Apache Kafka, RabbitMQ, Amazon SQS |
| **Testing & Monitoring Tools** | Junit,  JMeter, Postman, Prometheus,  Grafana, AWS CloudWatch,  SonarQube |

## EDUCATION

*MS in Computer Science | California State University, Dominguez Hills | GPA: 3.6 | 2023-2025*