Jaya Ganesh Reddy Guggulla

✉ jayaganeshreddy05@gmail.com　🌐 Portfolio Website　in Jaya Ganesh Reddy　⌨ Github/Ganesh1005

Education

Vellore Institute of Technology (Vellore, Tamil Nadu)　　*August 2021 – May 2025*
B.Tech in Computer Science with specialization in Blockchain Technology

Technical Skills

Languages: Java, SQL, Solidity, Python, JavaScript

Frameworks & Technologies: Spring Boot, Spring MVC, Spring Security, Hibernate/JPA, RESTful APIs, React.js, Thymeleaf

Databases: MySQL, PostgreSQL

Tools: IntelliJ IDEA, Postman, Git, GitHub, Azure, Docker, Maven, JUnit, Mockito

Certifications

AWS Certified Solutions Architect – Associate (SAA-C03) ↗　　*3 February 2026*
- Achieved AWS Solution Architect Associate certification (SAA-C03) with a score of 896/1000.

Microsoft Certified: Azure Fundamentals (AZ-900) ↗　　*16 June 2025*
- Achieved Microsoft Azure Fundamentals certification (AZ-900) with a score of 889/1000.

Projects

Secure Serverless Event-Driven Image Intelligence Pipeline on AWS　　*Project Website* ↗
- Built secure event-driven image analysis architecture using Lambda, S3, Rekognition, API Gateway, DynamoDB, and CloudFront
- Implemented presigned uploads, private S3 access, async processing, and automatic object cleanup
- Optimized for cost and security using least-privilege IAM and CDN distribution

Cloud-Native E-Commerce Microservices Platform – Spring Boot, Kafka, Docker, Kubernetes　　*github repo* ↗
- Built a microservices-based e-commerce system with Spring Boot (Product, Order, Payment, Auth services).
- Designed REST APIs with pagination, filtering, and JWT-based authentication using Spring Security & Keycloak.
- Implemented event-driven communication using Apache Kafka for order processing workflows.
- Integrated PostgreSQL and MongoDB with JPA; optimized queries using indexing.
- Containerized services using Docker and deployed locally using Docker Compose and Kubernetes.
- Implemented resilience using retries and circuit breaker patterns with Resilience4J.

Job Portal Application – Spring Boot, Thymeleaf, Spring Security, MySQL　　*github repo* ↗
- Developed a full-stack job portal with role-based access using Spring Security.
- Deployed on AWS Elastic Beanstalk with RDS integration.

Book Rental Platform – React.js, Spring Boot, Stripe API, JWT　　*github repo* ↗
- Built a full-stack book rental system with React frontend and Spring Boot backend.
- Implemented JWT authentication and integrated Stripe API for online payments.

Publications

A Hybrid Algorithm to predict Parkinson's Disease using Freezing of Gait ↗　　*Mar 2025*

Gopichand G., *Jaya Ganesh Reddy Guggulla*, Karthikeya R. M., Akash B., Fardeen S. M.