Jaya Ganesh Reddy Guggulla

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Education

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

- GPA: 7.47

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

Microsoft Certified: Azure Fundamentals (AZ-900) *16 June 2025*

- Achieved Microsoft Azure Fundamentals certification (AZ-900) with a score of 889/1000.

Projects

Full Stack Library Management System – React.js, Spring Boot, Stripe API, JWT

- Built a full-stack library management system with React.js frontend and Spring Boot backend.
- Designed RESTful APIs using Spring Data JPA/REST with custom queries, pagination, and sorting.
- Secured endpoints with JWT & OIDC authentication/authorization via Spring Security.
- Developed dynamic UI with custom React components, search, validation, and login/logout flows.
- Integrated Stripe API to enable secure online payments for premium features.
- Ensured reliability with structured exception handling, modular design, and input validation.

Job Portal Web Application – Spring Boot, Thymeleaf, Spring Security, MySQL

- Developed a full-stack job portal with Spring Boot 3, Thymeleaf, and MySQL.
- Implemented CRUD operations and entity relationships (one-to-one, one-to-many, many-to-many) using JPA/Hibernate.
- Built secure authentication and role-based access control with Spring Security.
- Designed RESTful APIs and integrated a responsive UI using Thymeleaf templates.
- Applied Spring annotations (@Controller, @Service, @Repository) and dependency injection for modular, maintainable code.

Cricket Action Recognition using Deep Learning

- Built 3D CNN and 2D CNN + LSTM models for cricket shot and bowling type classification with 95% and 94% overall accuracy, respectively.
- Preprocessed videos using OpenCV, normalized frames, and optimized model training with callbacks and learning rate scheduling in TensorFlow and Keras.
- Evaluated model performance using confusion matrices, classification reports, and visual analytics for robust validation.

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.