

Gurrapu Vigneshwar

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Professional Summary

Backend Software Engineer with hands-on production experience in Java, Spring Boot, RESTful APIs, and Microservices-oriented architecture at Cognizant. Delivered a live, cloud-deployed enterprise insurance platform covering policy lifecycle, secure payment workflows, and role-based access control. Complements core backend expertise with ML engineering – an AI Image Classifier trained on 120K+ images (93.55% accuracy) deployed live on Hugging Face Spaces. Proven in Agile environments: owns modules end-to-end, resolves production incidents, and ships clean, maintainable code.

Technical Skills

Programming: Java, Python

Concepts: OOP, RESTful APIs, Microservices, Agile

Backend: Spring Boot, Spring MVC, Spring Security, JPA/Hibernate, BCrypt, Maven

Database: MySQL, SQL, PL/SQL **DevOps:** Docker, Git, Linux, CI/CD, Postman

ML / AI: TensorFlow/Keras, EfficientNetB3, CNN, Grad-CAM, Scikit-learn, Pandas, NumPy

Analytics: Qlik Sense, KPI Dashboard Design

Professional Experience

Cognizant

Chennai, India

Programmer Analyst – Backend Engineer (Java)

Jul 2025 – Present

- Engineer and own production backend services in Spring Boot and Spring Data JPA, structured across Controller, Service, and Repository layers for a live enterprise system.
- Diagnose and resolve production issues in Agile sprints – root-cause analysis and JPA query optimization, reducing query turnaround and preventing issue recurrence.

Cognizant

Pune, India

Software Intern – Java & Spring Boot Development

Jan 2025 – Jul 2025

- Sole owner of the Payment Management Module – designed gateway simulation, retry logic, and persistent audit trail, enabling reliable end-to-end payment processing.
- Enforced transactional integrity across payment and policy operations via @Transactional service layer, eliminating data inconsistency risks.

Qlik

Remote

Business Analyst Intern

Apr 2024 – Jun 2024

- Analyzed 9 government road-safety datasets (37 states) in Qlik Sense; delivered interactive KPI dashboards that surfaced accident hotspots for data-driven decisions.

Projects

Auto Insurance Enterprise System

GitHub | Live Demo

Spring Boot, Spring Security, JPA/Hibernate, MySQL, Docker, Thymeleaf, Render

- Architected a multi-module RESTful backend: policy lifecycle, payments, premium calculator, and expiry notifications across role-separated ADMIN and CUSTOMER portals.
- Secured with Spring Security (BCrypt hashing + role-based access control) and a custom AuditService logging every CREATE, UPDATE, and PAYMENT action persistently.
- Containerized via multi-stage Dockerfile and deployed live on Render cloud – accessible at the link above.

AI Image Classifier – Real vs. AI-Generated

GitHub | Live Demo

Python, EfficientNetB3, Keras, Grad-CAM, Flask, Hugging Face Spaces

- Trained EfficientNetB3 (deep learning, computer vision) on 120K+ images achieving **93.55% classification accuracy**; lightweight fallback CNN for low-resource inference.
- Implemented Grad-CAM explainability via GradientTape – heatmap overlays show which image regions drive each prediction.
- Deployed as a live Flask application on Hugging Face Spaces with thread-safe prediction locking and automatic model download at cold start.

Credit Card Fraud Detection

GitHub

Python, Scikit-learn, Pandas, GridSearchCV, KFold Cross-Validation

- Benchmarked KNN, Random Forest, Logistic Regression, and Decision Tree on 284,807 transactions; KNN achieved **99.56% accuracy and 92.10% fraud sensitivity**, optimized to minimize missed fraud via Sensitivity-focused model selection.

Road Safety Analytics – India 2019

GitHub

Qlik Sense, Multi-dataset Integration, KPI Dashboard Design

- Integrated 9 government datasets (37 states); built a 4-sheet Qlik Sense dashboard (Overview, Demographics, Safety Deep-Dive, Insights) enabling drill-down risk analysis.

Education

Bachelor of Technology – Information Technology

Kakatiya Institute of Technology and Science

Mar 2021 – May 2025 CGPA: 8.29 / 10

Professional Attributes

Quick Learner • Analytical Thinker • Highly Reliable • Team-Oriented • Highly Adaptive