TAMMISETTI VIKRAM

Backend Engineer — Python — APIs — Reliability — System Design

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GitHub LinkedIn Portfolio LeetCode

Summary

Backend engineer passionate about building reliable systems and understanding how software behaves under real-world conditions. Experienced in designing secure APIs, authentication flows, and monitoring systems with a focus on correctness, observability, and scalability. Comfortable working across backend and full-stack layers to ship production-ready features.

Skills

Languages: Python, SQL, JavaScript

Frameworks: FastAPI, Django, Flask, React

Databases: PostgreSQL, Supabase

Infrastructure & Tools: Docker, Git, CI/CD, Postman, Stripe API, Render, Railway

Concepts: REST API Design, JWT Authentication, RBAC, System Design, Observability, API Security, Fault Tolerance

Machine Learning: PyTorch, TensorFlow, Model Deployment

Education

B.Tech in Computer Science 2022 – 2026
Mandava Institute Of Engineering & Technology

Projects

SentientShop — Production-Style E-Commerce Platform 2026
Live Project

- Designed and implemented a full-stack commerce platform using Django REST and React with secure JWT authentication, role-based access control, and Stripe payment workflows.
- Built transactional order pipelines and webhook handling to simulate real-world payment processing and inventory flows.
- Structured backend services with clear API boundaries emphasizing security, consistency, and maintainability.

SentinelCore — Reliability & Observability Engine 2025
Live Project

- Developed a monitoring system that tracks uptime, latency, and failure patterns of services using consecutive-failure detection to reduce false alerts.
- Implemented scheduling workflows and analytics pipelines inspired by real observability platforms.
- Explored reliability engineering concepts including failure detection, alert sensitivity, and system health modeling.

Task Management API — Secure Backend Service 2025
Live Project

- Built a secure REST API with FastAPI featuring JWT authentication, role-based authorization, and scalable CRUD operations.
- Designed modular service layers and database models to support extensibility and clean architecture.

ResNet18 CIFAR-10 Classifier — Model Serving Demo 2025
Demo

- Implemented and deployed a deep learning inference pipeline supporting real-time image classification.
- Demonstrated containerized model serving and API integration workflows.

Certification

Java Full Stack — Mandava Institute Of Engineering

Interests

Distributed Systems, Backend Architecture, Reliability Engineering, Developer Tooling, Learning from Production Systems