VEDIK GANNOJI

Software Developer

Hyderabad, Telangana | +91 9515766733 | vedikgannoji5126@gmail.com | github.com/Vedikgannoji | linkedin.com/in/vedik-gannoji

Backend-focused Computer Science student with hands-on software development experience building FastAPI services, REST APIs, and performance-monitoring systems. Achieved 90%+ test coverage and 20%+ latency reduction on a self-monitoring backend project. Comfortable across Python, Java, and SQL, with a growing focus on software architecture and testing.

EDUCATION

Bachelor of Technology (B.Tech), MLR Institute of Technology *2024 – 2028*
Computer Science and Engineering (Data Science) *CGPA: 8.7*

PROJECTS

Self-Optimizing API Performance Monitoring System
Backend Engineering Project

- Built a FastAPI-based self-monitoring backend tracking REST API latency, throughput, and error rates across 10+ endpoints to surface performance bottlenecks and regressions.
- Wrote automated unit and API tests covering endpoint behavior, error handling, and regression scenarios, reaching 90%+ test coverage across core backend components.
- Implemented adaptive response caching and performance analytics, cutting repeated request overhead and reducing response latency by 20%+ under load testing.

Multi-Agent Traffic Negotiation using V2V Communication
Software Engineering Project

- Built a real-time multi-agent coordination framework where simulated vehicle agents negotiate movement and right-of-way over decentralized V2V communication.
- Designed the agent architecture with path reservation, conflict detection, and priority-based decision-making to prevent conflicting trajectories and improve traffic flow.

Furniture E-Commerce Platform
Freelance Project

- Architected and built a full-stack e-commerce platform end-to-end from product catalog and room-based showcases to cart, checkout, and order management using React/Next.js, Node.js, and PostgreSQL.
- Designed and built an admin system spanning inventory, order, and customer management, integrated billing and business analytics, and wired up Razorpay/Cashfree for live payment processing.

TECHNICAL EXPERIENCE

Technical Intern & Mentor, Centre for Innovation & Entrepreneurship (CIE), MLRIT *Aug 2025 – Present*

- Support 50+ student-led software development and hardware projects and mentor 400+ first-year students across 100+ project teams, from ideation through implementation.
- Organize 5+ technical events and 2 workshops, and lead code-review and problem-solving sessions to promote peer-to-peer engineering practice.

Software Development Engineer (SDE) Intern, GM Group *Feb 2026 – Jul 2026*

- Built automation scripts to integrate AI-powered rendering and image-processing workflows into the production pipeline, cutting manual processing time and improving operational efficiency by 40%.
- Refactored existing rendering processes to reduce manual intervention and improve consistency and reliability of output across the image-processing pipeline.

SKILLS

Languages: Python, Java, JavaScript/TypeScript, C, R
Backend & Systems: REST APIs, FastAPI, Node.js, Unit Testing, Caching & Performance Optimization
Frontend: React, Next.js
Databases: PostgreSQL, MySQL, MongoDB, Oracle Database
Developer Tools: Docker, Postman, Version Control (Git & GitHub), CI/CD, Jupyter Notebook
Data Science: Big Data Analytics with Apache Hadoop & Apache Spark, Data Visualisation (PowerBI & Tableau), ETL Pipelines