

Kranthi Kumar Akurathi

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Education

Vellore Institute of Technology, Amaravati

B. Tech in CSE Core

Narayana Junior College, Vijayawada

12th SSC – 85%

2023 - Expected 2027

Guntur, India

2021– 2023

Vijayawada, India

Projects

TravelGo – Travel Booking Web Application | *React.js, PostgreSQL, Supabase, Vite, Google Gemini, OAuth 2.0+JWT* | [Live](#) 2026

- Developed a full-stack travel booking platform with **Google OAuth 2.0**, JWT authentication, bus search, seat selection, booking management, and role-based access control using **React.js**, **Supabase**, and **PostgreSQL**.
- Designed and integrated secure RESTful APIs with PostgreSQL, implementing normalized relational schemas, protected routes, and scalable backend workflows for booking and user management.
- Integrated Google Gemini 1.5 Flash AI chat assistant with real-time, context-aware travel recommendations.
- Implemented **76 automated unit and integration tests** using **Vitest** and **React Testing Library**, achieving **91%+ code coverage**, and performed **k6** load testing to validate application reliability under concurrent traffic.

EduVerse – Offline-First Rural Education Platform | *React.js, Node.js, PostgreSQL, Express.js, PWA, LoRa* | GitHub 2026

- Engineered a gamified full-stack e-learning platform for rural students with offline-first PWA support using Service Workers and IndexedDB for zero-internet functionality.
- Designed a 14-table PostgreSQL relational schema with JWT authentication, role-based access control (RBAC), and real-time WebSocket chat between students and teachers
- Integrated LoRa (Long Range) wireless protocol to sync student XP and progress data over a 5–15 km range without internet using ESP32 hardware modules
- Built an AI-powered weak area detection engine, analyzing quiz attempts and level completion to generate personalized study recommendations.

ClickCharm – E-Commerce Platform | *React.js, Node.js, MySQL, Express.js, OAuth 2.0* | GitHub 2025

- Developed a responsive e-commerce platform with OAuth 2.0-based user authentication, product catalogue, cart management, and full checkout workflow.
- Designed and integrated RESTful APIs for seamless front-end and back-end communication, supporting CRUD operations across 8+ endpoints.
- Optimized MySQL queries and normalized database schema across 8+ REST endpoints, reducing average API response time by 30%.

Certifications

- Oracle Certified Professional — Data Science (Oracle University, 2025)
- Oracle Certified Professional — Generative AI (Oracle University, 2025)

Technical Skills

Languages: Python, JavaScript (ES6+), Java, C, SQL.

Backend Development: FastAPI, Node.js, Express.js, REST APIs, Microservices, JWT, OAuth 2.0.

Databases & Caching: MySQL, PostgreSQL, NoSQL, Redis.

Frontend: React.js, Tailwind CSS.

Cloud & DevOps: Amazon Web Services, Docker, CI/CD pipelines, Load balancing, GitHub Actions, Nginx, Git, GitHub.

AI & Machine Learning: Pandas, NumPy, Scikit-learn.

Tools & Infrastructure: n8n, Linux, Postman, Vercel, Jupyter Notebook, Antigravity, Claude.

Concepts: Data Structures and Algorithms, Object-Oriented Programming, System Design, Distributed Systems, Agile.