BOMIDI PRUDHVI PALLAV KUMAR

prudhvipallavkumarbomidi@gmail.com | +91-7981081269

Summary

Third-year B.Tech student in AI & Data Science building and deploying AI-powered applications across mobile, backend, and developer tooling.

Work Experience

DevOps Intern April 2026 – June 2026
Dalvkot IT, Bengaluru

- Deployed an on-premises observability stack (Grafana, Prometheus, Loki) across 50+ servers and web services
- Automated webhook-based alerting with self-healing restarts on critical failures, minimising manual intervention
- Built centralised health monitoring covering uptime, resource utilisation, and log aggregation at scale
- Deployed monitoring infrastructure for a healthcare environment with strict uptime and data integrity requirements

Education

Bachelor of Technology – Artificial Intelligence and Data Science 2024 – 2028
JNN Institute of Engineering, Chennai, Tamil Nadu | CGPA: 7.7/10.0

Technical Skills

AI & Applied ML: PyTorch, Hugging Face, LangChain, LLM APIs (OpenAI, Gemini)
Languages: Python, TypeScript, JavaScript, Kotlin, SQL
Backend & APIs: FastAPI, Node.js, Express.js
Frontend & Mobile: React, React Native (Expo)
Databases: PostgreSQL, MongoDB, SQLite
DevOps & Infra: Grafana, Prometheus, Loki, CI/CD, AWS S3, On-Premises Server Management
Version Control: Git, GitHub

Projects

Bubblu – AI-Powered Personal Route Intelligence App 2026
React Native, TypeScript, FastAPI, Python, PostgreSQL, OpenRouteService API

- Built solo end-to-end: mobile app with intelligent route generation using a weighted scoring algorithm across safety, scenery, surface, and traffic factors personalised per user preference
- Engineered 60fps performance on mid-range devices via native-thread animations, throttled GPS at 2Hz, and Douglas-Peucker polyline simplification reducing map draw calls by 7x
- Integrated OpenRouteService API with synthetic fallback routing and offline-capable local persistence

TechForge 2026 – College Tech Fest Event Platform 2026
React, TypeScript, Node.js, Express.js, PhonePe Gateway

- Integrated PhonePe payment gateway across 8 APIs (intent, paylink, S2S callback, refund) with SHA256 checksum validation and Base64 payload encryption
- Supported 1000+ student logins across 70+ events with automated PDF ticket and QR code generation

Gnana – Multi-Agent Sync VS Code Extension 2026
TypeScript, LLM APIs (In Development)

- Building a VS Code extension enabling AI agents across multiple developers to share context and coordinate tasks in real time
- Architecting a shared context protocol so agents can broadcast task state and coordinate ownership of subproblems

Real-Time Canteen Order Management App 2025
Kotlin, PostgreSQL, Local AI

- Integrated AI-based demand prediction to reduce fulfilment delays; optimised PostgreSQL for high-concurrency order handling

Study Tracker Pro – Student Productivity Desktop App 2025
Python, SQLite, Matplotlib, CustomTkinter

- Built analytics dashboards with habit tracking, focus charts, and JSON/CSV export over a normalised SQLite schema