

venu GOPAL KUNCHEPU

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PROFESSIONAL SUMMARY

Full Stack Developer with production experience owning React Native and Kotlin applications at Zapygo, a real-time fuel delivery platform. Delivered three apps end-to-end covering BLE hardware, geo-zoning, payment gateway, and offline-first SQLite. Currently building SmartFuel Tracker, a production-grade offline-first fuel delivery platform using the same architecture.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL

Mobile: React Native (Expo & Bare), Kotlin/Jetpack Compose, SQLite/Room

Backend: Node.js, Express.js, REST APIs, PostgreSQL, MongoDB

Tools: Git, GitHub, Postman, Railway, Figma

Integrations: HDFC SmartGateway, Bluetooth Low Energy (BLE), Firebase

Web: HTML, CSS, Responsive Design, Performance Optimization

EXPERIENCE

Software Engineering Intern - Zapygo Energy Pvt. Ltd.

(Dec 2025 – March 2026)

- Owned end-to-end Driver Application in Kotlin/Jetpack Compose, built authentication, real-time vehicle switching, complex orders lifecycle, live map, and 50m-radius BLE fuel dispensing with Start/End OTP.
- Built Petrol Pump Manager App from scratch in React Native Expo, delivered live orders view, vehicle/driver assignment, and real-time fuel data monitoring for pump owners. Deployed to Play store.
- Designed and implemented geo-based service zoning system (30 km radius) using Haversine formula + bounding box optimization, created reusable zoning-core shared package consumed across all repos.
- Led HDFC SmartGateway payments integration in Customer App, migrated Expo to bare React Native CLI and coordinated directly with HDFC technical team for sandbox-to-production rollout.
- Designed offline-first SQLite/Room architecture supporting 100+ orders with controlled sync and auto-refresh logic. Handled PostgreSQL schema design and migrations for backend services.

PROJECTS

SmartFuel Tracker - Offline-First BLE Fuel Delivery Platform (Active Development)

[GitHub](#) | [Live API](#)

- Building React Native driver app with BLE simulation, live dispensing meter, geo-zoning, and on-device PDF invoicing offline-first SQLite WAL-mode architecture.
- Built a sync system to safely retry failed requests and avoid duplicate data during network issues and HMAC-SHA256 server-side payment verification on Railway with GitHub Actions CI/CD.
- Designing for zero-network logistics, local offline queue with automatic sync and robust conflict resolution.

Chat Application

[GitHub](#)

- Built a real-time browser chat app using Flask-Socket.IO, JavaScript. Assigned random usernames and avatars.

React Admin Dashboard

[GitHub](#)

- Built a responsive admin panel using React.js, Tailwind CSS, Recharts, and Framer Motion with interactive charts, tables.

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering

2020 - 2024

Jawaharlal Nehru Technological University, Anantapur, AP | CGPA: 7.7

ACHIEVEMENTS / CERTIFICATIONS

- Full Stack Development - Green Tree Softtech Solutions