

JAY RANE

Software Engineer | AI & Full-Stack Developer

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EDUCATION

Don Bosco College of Engineering, Fatorda, Goa, India September 2022 – September 2026
Bachelor of Engineering in Computer Engineering | GPA: 7.5

SKILLS SUMMARY

Languages: Python, JavaScript, TypeScript, SQL, C++, C

Libraries: React, React Native, Zustand, Tailwind CSS, FastAPI, Flask, NumPy, Pandas, Scikit-learn

Databases & Backend: PostgreSQL, Supabase, Firebase, Supabase Auth, Vercel, AWS, Cloudflare

Tools: Git, Docker, Firebase, Linux, VS Code

Soft Skills: Communication, Troubleshooting, Problem Solving, Team Leadership, Decision Making

WORK EXPERIENCE

Co-Founder & CTO | Carbon Bazaar March 2025 – March 2026

- Led technical development of a blockchain-based carbon marketplace startup as CTO.
- Built the MVP, landing page, and product demonstrations used for startup pitches and grant applications.
- Developed smart contract prototypes using Solidity to model carbon credit workflows.
- Collaborated on product strategy, technical architecture, and full-stack development.
- Contributed to securing a ₹10 Lakh FiiRE incubation grant through rapid MVP development and technical demonstrations.

Software Developer Intern | Onstro (formerly Teknorix) — YotCard July 2025 – Sep 2025

Project

- Developed cross-platform mobile application features using React Native, TypeScript, and Tailwind CSS.
- Built custom reusable UI components from scratch without relying on third-party component libraries.
- Integrated REST APIs and implemented centralized state management using Zustand.
- Delivered responsive Android and iOS interfaces based on production-ready design specifications.
- Collaborated with the team to evaluate and implement scalable mobile application architecture.

PROJECTS

JugaadGPT | Hackathon April 2026

- Developed a constraint-first AI assistant that generates practical solutions based on user budget, materials, location, and resource availability.
- Built a multimodal AI assistant supporting voice, image, and multilingual conversations using LLMs, Whisper, RAG, pgvector, and React Native.
- Developed cross-platform Android and iOS applications using React Native while maintaining feature parity with the web platform.
- Designed scalable AI architecture using LLMs, RAG, pgvector, Whisper, and rule-based validation for practical recommendations.

RFID + Facial Recognition Attendance System | Hackathon December 2024

- Developed a dual-factor attendance system using OpenCV facial recognition and RFID authentication for accurate student attendance tracking.
- Implemented real-time face detection, attendance logging, and identity verification workflows using Python and machine learning concepts.
- Secured 2nd Place at InfoFest 2024 Hackathon for developing an AI-powered attendance management system.

Restaurant Management System | DBMS & Web Technologies Project October 2024

- Developed a restaurant management platform with modules for order processing, staff administration, and table allocation.
- Implemented real-time order and table status updates using PHP, MySQL, JavaScript, and AJAX.
- Built administrative workflows for hiring, updating, and managing staff through a centralized dashboard.
- Designed normalized MySQL schemas and backend workflows to streamline restaurant operations.

ACHIEVEMENTS

- **2nd Place, InfoFest 2024 Hackathon** – Developed a Facial Recognition and RFID-based attendance management system.
- **2nd Place, GEC Startup Standoff 2025** – Pitched Carbon Bazaar, a blockchain-based carbon marketplace.
- **2nd Place, GEC Pitch Tank 2026** – Presented BuyerGrade startup concept.
- **Top 5 Finalist, Converge 2.0 Startup Competition** – Selected among 60+ participating teams.
- **₹10 Lakh Grant Recipient, FiiRE Incubation Program** – Contributed to Carbon Bazaar's successful grant application and selection.