

V. Prasanth

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Executive Summary

Aspiring Software Development Engineer with strong skills in Java, data structures, and algorithms. Experienced in full-stack development using the MERN stack, Supabase, and FastAPI, with proficiency in Next.js, JavaScript, and TypeScript. Quick to learn new technologies and passionate about building scalable, reliable, and user-focused software solutions.

Education

Vellore Institute of Technology Aug 2023 – May 2027
B.Tech in Mechanical (AI and ML)
Sir Siva Swami Kalalaya Senior Secondary School, Mylapore 2023

Technical Skills

Languages: Python, Java, Typescript, Javascript, SQL
Frameworks: React.js, Next.js, Node.js, Flask, Sanity, Express.js, MongoDB, Tailwind CSS, Framer Motion
Version Control and Tools: Git, Github, Postman, Figma, Visual Studio Code
Cloud and Cloud native: AWS, GCP, Docker, Kubernetes
Soft Skills: Leadership, Event Management, Public Speaking, Team Management, Logical thinking

Experience

Integra Global Tech Chennai, India
SDE Intern – Backend Developer

- Implemented a scalable database architecture using SQLite and Drizzle ORM, improving query reliability and schema consistency by 30%.
- Automated database migrations on app startup with a custom React hook, reducing manual setup time by 40% and minimizing migration errors.
- Optimized developer workflow by integrating Drizzle Studio with Expo, increasing database inspection and management efficiency by 25%.

Projects

Autism Behavior Analysis Platform — Next.js, 3.js, FastApi, Computer vision 🤖

- Built a web platform for autism risk profiling using facial behavior, eye tracking, and speech disfluency analysis, improving UI/UX by 30%.
- Integrated a GPT-powered chatbot via FastAPI for interactive support, reducing response latency by 40% and enabling real-time symptom assistance.

CareerTrack — Next.js, Fastapi, Supabase 🤖

- Built an AI-powered career companion with personalized job recommendations, learning resources, and productivity tracking.
- Led backend integration, app development, and frontend design, ensuring seamless server-app communication and a user-friendly UI/UX.
- Integrated mental well-being and work-life balance features to help users stay productive and avoid burnout.

AI Drone Threat Classifier — Next.js, Fastapi, Supabase 🤖

- Developed the frontend for a real-time drone detection and threat classification platform, integrating live maps, 3D trajectory visualization, and blockchain-backed threat logs.
- Enhanced UI responsiveness and interactivity using Next.js and Three.js, improving situational awareness and user experience by 35%.

Rooms.io — SQLite, Drizzle ORM, React, Expo 🤖

- Built a scalable local data storage system using SQLite and Drizzle ORM, improving database reliability and query performance by 30%.
- Automated schema migrations on application startup with a custom React hook, reducing setup effort by 40% and minimizing deployment issues.
- Enhanced developer productivity by integrating Drizzle Studio with Expo, increasing database inspection and management efficiency by 25%.

Achievements

- VITISH Hackathon:** Ranked 13th place in VIT's internal hackathon (VITISH) among 540 teams
- Hackhub'25 Winner:** clinched 1st place at HackHub'25, organized by IEEE CompSoc VIT-C and proudly sponsored by GitHub Devfolio! Out of 500 competing teams, only 60 made it to the finals—and we emerged victorious!

Certifications

- [Web development \(UDEMY\)](#) October 2024
- [Web development Internship: Btech walley](#) September 2024