

vijay kota

Software Engineer, backend developer , hardware developer

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SUMMARY

Versatile Software Engineer with expertise spanning backend development, hardware engineering, and drone firmware development. Proven track record in designing scalable architectures, autonomous systems, and modern web applications. Experienced in developing full-stack solutions and embedded firmware.

EXPERIENCE

Drone Firmware Development

PASSION 3D WORLD

Feb 2026 – Jun 2026

- Engineered drone firmware and managed end-to-end testing of the FlyDrone platform.
- Designed CAD models and custom PCB layouts for hardware integration.
- Facilitated team communication to streamline hardware and firmware development workflows.

EDUCATION

ITM Skills University, Navi Mumbai · B.Tech · 2028

SKILLS

Languages and Frameworks: C, C++, CSS, Express.js, FastAPI, HTML, Java, JavaScript, Node.js, React.js, SQL, TypeScript

Databases: Firebase, MongoDB, MySQL, Neo4j, PostgreSQL, Supabase

Tools: AWS, Docker, Git, GitHub, GraphQL, IoT Architecture, JWT, Kubernetes, Linux, Render, Vercel, WebSocket

PROJECTS

Scanlytics

Healthcare AI Platform for instant medical scan analysis. Architected a scalable healthcare AI platform focused on performance, data privacy, and reliability using React, TypeScript, Firebase, and MongoDB. Implemented secure medical data processing workflows.

React, TypeScript, Firebase, MongoDB

[View Repo](#)

Real-Time Chat Application

Feature-rich real-time chat system. Built a real-time messaging system featuring authentication and cloud-based data storage using JavaScript and Firebase.

JavaScript, Firebase

[View Repo](#)

Kamikaze Drone

Indigenous autonomous UAV. Designed an autonomous UAV capable of carrying five independent payloads. Implemented GPS/INS navigation, geofencing, and seamless transitions between manual and fully autonomous modes.

Additional projects: ArogyaCube