Omkar Hundre

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EDUCATION

Kendriya Vidyalaya Karriappa Road, Ahmednagar Ahmednagar, Maharashtra
Matric and 12th *2020 – 2022*

Jain College Of Engineering, Belagavi (Pursuing) Belagavi, Karnataka
Computer Science And Engineering *Aug. 2023 – Till Date*

EXPERIENCE

Software Developer (Freelance + Startup Projects) Jan 2023 – Present
Remote / Self-driven
- Built and deployed end-to-end software solutions for industrial, healthcare, and educational sectors.
- Led the development of **Zorabase**, a Firebase-like server system handling 1500+ concurrent users with real-time DB and custom auth.
- Created **COSEM**, an AI-powered quotation tool for hydraulic industries, reducing workflow time from days to minutes.
- Developed multiple admin dashboards, user portals, and backend logic with complex JSON-based data handling.
- Worked closely with industrial clients and stakeholders to gather requirements, deploy solutions, and iterate based on feedback.

Finalist (4th Place), InnovateX – E-Summit 2024 Mar 2024
IIT Bombay & Somany Impresa Group
- Selected in top 10 teams out of 2250+ nationally for solving real-world logistics and supply chain problems.
- Presented strategy and tech-backed business solution live at IIT Bombay E-Summit, securing 4th place nationally.

PROJECTS

Zorabase | *Python, Redis, Multi-threading, JSON, WebSockets, Firebase Auth*
- Built a full-fledged Firebase alternative with real-time database, rules engine, and user authentication.
- Server supports up to 2000 concurrent users using multi-threading on dedicated hardware.
- Includes a full admin dashboard for monitoring users, data, and system metrics.

COSEM | *Electron.js, Node.js, AI Integration, JSON DB, Custom Auth System*
- Designed a cost estimation tool for hydraulic industries, reducing estimation time from 5–7 days to under 5 minutes.
- Used nested JSON data models and custom logic to handle complex quotation generation.
- Currently deployed in 3 industrial setups with secure login, AI predictions, and dynamic forms.

AI-Powered Patient Monitoring System | *Python, ML, OpenCV, Speech Synthesis, Sensor Integration*
- Developed a system to monitor patient vitals, movement, and behavior using live camera and sensor data.
- Implemented ML models to train on patient habits and provide real-time spoken feedback and alerts.
- Triggered emergency responses and notifications to caregivers on detecting risky behavior.

Jain Bus Tracking System | *Firebase, HTML/CSS/JS, Geolocation APIs, Admin Panel*
- Built a multi-role bus tracking platform for college use—students, drivers, and admins.
- Admin panel supports real-time route edits, driver assignments, and bus occupancy updates.
- Live tracking and ETA visible to students; adopted by the college-wide transport system.

Creative Hydraulics Website + Site Builder | *HTML, JS, Custom CMS Logic, Hosting*
- Designed and deployed a clean portfolio site for an industrial firm with a built-in no-code editor.
- Enabled the client to update site content without external help via a user-friendly builder interface.
- Deployed live with custom domain and optimized performance.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML, CSS, SQL, JSON
Backend: Firebase, Node.js, REST APIs, Redis, Multithreading
Frontend: Tailwind CSS, Bootstrap, GSAP, Vanilla JS, Responsive UI Design
AI/ML: OpenCV, Scikit-learn, MediaPipe, Custom ML Model Integration
Tools & Platforms: Electron.js, Git, GitHub, Figma, Vercel, Netlify, Replit, Hosting & Domain Management