Omkar Santosh Pawar

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Professional overview

Full-stack developer with experience across the MERN stack, Next.js, UI/UX fundamentals, and secure backend development. I enjoy understanding how systems work end-to-end and improving both developer and user experience. Continuously learning and improving while building products that are practical, scalable, and impactful.

Experience

Inscripts - Software Developer Engineer (remote)   jan-2026 - present

- Working on CometChat, a **communications platform as a service** (CPaaS), focusing on the real-time chat, voice, and video SDK.
- Currently optimising the developer experience on documentation to increase conversion.

Kalaam Foundation – Volunteer Full Stack Developer   dec 2025 - present

- Building a modern donation-facing web platform aimed at improving visibility and donor engagement; currently defining system architecture and UX flows.

Projects

Neo-Tribe (freelance) [repo](#)   oct. 2025 – nov. 2025

- Built a high-performance e-commerce platform using **Next.js App Router**, serverless API routes, and a **Prisma + Postgres** stack.
- Integrated **Razorpay** with full webhook reconciliation, secure auth, and role-based access control, alongside an admin dashboard for **real-time order + product operations and analytics.**
- Optimized UX with a global CDN, GSAP-driven animations, and image-pipeline tuning, and deployed a full **CI/CD workflow (GitHub → Vercel)** with automated linting, schema validation, and preview deployments.

ScrapeFlow – AI powered web scraping (saas) [link](#)   may. 2025 – oct. 2025

- Built a production-grade automation system using Next.js, React Flow, Prisma, and Puppeteer, allowing users to assemble **11+ typed workflow modules** and schedule them via **cron-based triggers**.
- Designed a high-throughput execution engine with concurrent browser pools, adaptive DOM-liveness checks, and an AI-driven semantic extractor powered by Gemini, achieving **sub-400ms P95 latency** and reducing manual data processing by **70%+**
- Implemented a multi-tenant **AES-256 encrypted** credential vault (server-side-only decryption) and added real-time observability with event-streamed logs + TanStack Query, boosting debugging efficiency by **3.2×**.

Hollows of Nethermoor (personal) [link](#)   jul. 2025

- Used Next.js + **Next-Auth** (Google OAuth) + Prisma + Neon Postgres to implement authentication and persistent game logic, which ensured reliable session handling.

Developing an Autonomous UAV with AI-Driven Perception (college funded project)   jun. 2025 – present

- Developed a Raspberry Pi 4–based broadband telemetry link using a SIM7600G-H (Waveshare) 4G modem, Janus WebRTC SFU, and WireGuard tunnels to deliver sub-second HD video + MAVLink telemetry over public cellular networks behind CG-NAT.
- Implemented autonomous waypoint navigation using ArduPilot's mission stack with ELRS failsafe, and developed a cloud-based perception pipeline using YOLOv8 for object detection on RTSP video streams to support future AI-assisted navigation modes.

Skills

Programming languages: - JavaScript - Python - TypeScript - C++
Frameworks: - Reactjs - Nextjs - Express - Nodejs - Flask - Django
Tools & Databases: - SQLite - MongoDB - GSAP - TensorFlow - Docker - Git/GitHub - WebRTC - PostgreSQL

Education

Atharva College of Engineering,malad   june, 2027
Mumbai University
BE Electronics and telecommunication

Achievements

- Secured college funding for AI-driven Autonomous UAV project; pitched technical financial and application plan to a panel and got funding to develop a prototype.