OMKAR PAWAR

FULL-STACK WEB DEVELOPER

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Linkdin
Github
Portfolio

PROFESSIONAL OVERVIEW

Aspiring software developer with a solid foundation in the MERN stack, UI/UX design, and backend security. Motivated, hardworking, and naturally curious—I love exploring how things work and tackling technical problems. I'm always learning, improving, and excited to collaborate on meaningful, impactful projects.

FREELANCE WORK

Neo-Tribe

- Built a scalable e-commerce platform using **Next.js** App Router and serverless APIs.
- Designed a **Prisma** + **Neon Postgres backend** with pooling, branching, and zero-downtime migrations.
- Added **Razorpay** payments with webhook flow, secure auth, and role-based access.
- Developed an **admin dashboard** with **TanStack Table** for real-time product and order management.
- Integrated a **global CDN** and optimized **GSAP-animated UI** for a fast, responsive experience.
- Set up full CI/CD (GitHub → Vercel) with automated schema checks, linting, and preview deploys.

PERSONAL PROJECT

ScrapeFlow – AI powered web scraping SAAS

- Used **Next.js** + Prisma + Postgres to build an automated scraping system, which reduced manual data collection time by 70%.
- Designed a workflow UI with **React Flow + TanStack Query** + **Tailwind**, which orchestrated **10+ scraping pipelines** in real time using **puppeteer**.
- Integrated **AI-based modules**, which enabled pipeline-based automated insights with minimal setup.

Hollows of nethermoor

- Used Next.js + **Next-Auth** (Google OAuth) + Prisma + Neon Postgres to implement authentication and persistent game logic, which ensured reliable session handling.
- Optimized heavy media files with lazy loading and multiple rendering formats, which **cut asset load times by ~40%** and **reduced latency in gameplay transitions**.
- Designed a Tailwind CSS UI with interactive evidence viewers, which streamlined conditional rendering for smoother in-game interactions.

ACADEMIC / RESEARCH PROJECT

Developing an Autonomous UAV with AI-Driven Perception (funded project)

- Designed a twin-boom autonomous UAV (1.5m wingspan) with **Ardupilot** on STM32 based flightcontroller.
- Achieved ±1.5m waypoint accuracy with mission planning + IoT telemetry.
- Achiewed 10km primary control link with **ELRS** based transmitter and receiver.
- Integrated Raspberry Pi 4 + 4G HAT enabling unlimited 4G video/control link.
- Built dual **WebRTC + MAVProxy** video and control kink with **500ms latency** with 4g.

Sign Language Translator

- Used TensorFlow to train a gesture recognition model with 90%+ classification accuracy, which enabled real-time sign-to-text translation.
- Deployed on a Raspberry Pi with picam input, which processed gestures in under 300ms per frame.

EDUCATION

BE Electronics and telecommunication
Atharva College of Engineering,
Mumbai University
2026

SKILLS

Programming Languages

- JavaScript
- TypeScript
- Python
- C++

Frameworks

- Reactjs
- Express
- Flask
- Nextjs
- Nodejs
- Django

Tools & DB

SqLite	MongoDB	PostgreSql
GSAP	Tensorflow	WebRTC
Docker	Git/Github	Zustand

ACHIEVEMENTS

Award/Achievement

- Secured college funding for AI-driven Autonomous UAV project; pitched technical financial and application plan to a panel and got funding to develop prototype
- 1st Prize – Sci-Com Product Development Competition (Developed a FMCG product + branding strategy)

PROFESSIONAL DEVELOPMENT

Deloitte Data Science Job Simulation

Completed real-world tasks in data analysis, visualization, and client presentation using Python & Excel.