

ONKAR PATIL

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CAREER OBJECTIVE

Computer Engineering undergraduate with a strong foundation in Data Structures and full-stack development, focused on building scalable web applications and delivering efficient, real-world software solutions.

EDUCATION

- 2023 - 2027 B.Tech** in Computer Science and Engineering at **Nagesh Karajgi Orchid** (GPA: 7.4 / 10.0)
College of Engg and Tech , Solapur.
(Affiliated to Dr. BATU , Maharashtra)
- 2022 – 2023 H.S.C** at **English School and Junior College Mangalwedha .** (61.00%)
- 2020 – 2021 S.S.C** at **Shree Siddheshwar Vidya Mandir Machnur.** (90.22%)

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java,c

Developer Tools: VS Code, Postman, Docker, Cursor, Antigravity

Technologies/Frameworks: Git , GitHub, ReactJS, NextJS, NodeJS, ExpressJS, Mongo, TailwindCSS

Databases: PostgreSQL, MongoDB , Prisma

PROJECTS

AgriNova – AI & IOT-Powered Soil Monitoring & Crop Recommendation Platform| **2026**

Next.js,TypeScript, FastAPI, PostgreSQL, XGBoost, SHAP, Gemini, Prisma, Zod, Tailwind CSS

- Built a full-stack Agri-Tech platform for Maharashtra farmers that analyzes soil parameters (NPK, pH, EC, moisture) and delivers AI-powered crop and fertilizer recommendations in under 2 seconds.
- Developed a dual-model ML pipeline using XGBoost on a 14,000-row Maharashtra dataset with 97–99% accuracy, integrated SHAP explainability and Google Gemini API insights for transparent and user-friendly recommendations.
- Integrated IoT-based soil sensors with Raspberry Pi for real-time field data collection and architected a microservices system using Next.js, FastAPI, Supabase, and Prisma with RBAC, rate limiting, and fallback mechanisms for high reliability.

Incognito Chat (Real-Time Messaging Platform) | Next.js, TypeScript, WebSocket, Tailwind CSS **2026**

- Engineered a **real-time messaging platform** leveraging WebSocket for efficient, low-latency communication.
- Designed a **privacy-focused temporary room architecture**, automatically destroying chat rooms after user exit to ensure zero data retention.

AyurDiet – Ayurvedic Practice Managements and Nutrient Analysis Platform) | Next.js, **2025** TypeScript, PostgreSQL,MongoDB ,Prisma, Zod , OpenAI, Gemini, Tailwind CSS

- A comprehensive cloud-based practice management and nutrient analysis platform designed specifically for Ayurvedic dietitians and practitioners.
- Integrated **LLM APIs (OpenAI & Gemini)** to generate Diet Plan, Dosha Analysis and Diet Chart
- Built secure **authentication and onboarding system** using Clerk, storing user data in PostgreSQL via Prisma ORM.

CO – CURRICULAR ACTIVITIES

Social Media Head, CSESA (Computer Science & Engineering Student Association) **2026**

- Managed official social media platforms and increased engagement through strategic content planning
- Coordinated with team members to promote technical events and activities

Technical Coordination & Management **2026**

- Managed and supported technical operations during departmental events and activities
- Assisted in organizing and executing technical sessions, ensuring smooth event flow

Hackathon Participation – SKN **2025**

- Participated in a competitive hackathon, collaborating with a team to develop innovative solutions
- Gained hands-on experience in problem-solving, teamwork, and rapid development.

INTERNSHIP / TRAINING

ZENSAR – Aptitude and Soft Skills Training **2026**

EMINENCE – Campus to Corporate Internship **2025**

CERTIFICATIONS

INFOSYS Springboard – Object Oriented Programming using Python **2025**

NPTEL - Programming in Java **2024**

TCS ion – Presentation & Soft Skills **2023**

LANGUAGES

English , Hindi , Marathi