

Pranav Khalate

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Professional Summary

Computer Engineering undergraduate specialized in **Full-Stack Engineering** and **LLM Integration**. Experienced in architecting scalable, production-ready applications with **1K+ active users**. Expert in the **MERN stack**, **TypeScript**, and **Cloud Infrastructure**, with a focus on **Atomic Design**, clean system logic, and optimizing UI/UX for high-performance web environments.

Experience

Open Source Contributor

Aug 2025 – Oct 2025

GirlScript Summer of Code (GSSoC '25) | Remote

- Orchestrated a **37-commit structured refactor** (+8K / -7.5K LOC) of the NotesVault codebase, implementing **modular architecture** to enhance system maintainability.
- Delivered **7+ merged pull requests**, resolving critical performance bottlenecks and standardizing **global state management** across active repositories.
- Elevated code quality through rigorous peer code reviews and PR evaluations.

Web Development Intern

Jun 2025

CipherByte Technologies | Remote

- Engineered **6+ responsive web applications** utilizing a **Mobile-First** design philosophy to ensure 100% cross-device compatibility.
- Optimized front-end components for speed, significantly reducing **Largest Contentful Paint (LCP)** and improving production readiness.
- Debugged complex UI/UX workflows, ensuring seamless **DOM rendering** and interaction performance.

Selected Projects

EcoSage: AI Sustainability Companion ([🔗](#))

Dec 2025

- Engineered an **AI-powered PWA** for product scanning and sustainability scoring, serving **350+ active users**.
- Integrated **Google Gemini API** for vision-based insights and implemented offline functionality.
- Recognized as a top-tier project for technical innovation and architectural clarity at multiple global hackathons.

StellarLearn: AI-Driven Cosmic Learning Platform ([🔗](#))

Nov 2025

- Developed a **Full-Stack EdTech Platform** with a space-themed Glassmorphism UI.
- Engineered **LearnHub**, a content processor to extract study materials from **PDFs and YouTube transcripts**.
- Integrated a real-time **AI Mentor (Pixie)** and a gamified cosmic achievement system to enhance engagement.

Zener Diode Virtual Lab ([🔗](#))

Jan 2025 – Mar 2025

- Architected an interactive **circuit simulation engine** with real-time calculations, scaling to **1K+ users**.
- Integrated an **AI chatbot** for contextual guidance, resulting in a **40% increase** in user engagement.
- Awarded **1st Place** at FESA 2K25 for STEM-focused digital innovation.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, C++, C, Java (DSA)

Frontend: React 18, Tailwind CSS, Framer Motion, HTML5/CSS3

Backend & Cloud: Node.js, Express.js, Supabase (PostgreSQL), Firebase, GCP, Cloudinary

Tools & DevOps: Git/GitHub, Postman, Vite, Vercel, Netlify, REST APIs

Core Concepts: Atomic Design, LLM Orchestration, State Management (Zustand), Mobile-First Design

Education

B.E. Computer Engineering

2024 – 2028

University of Mumbai

CGPA: 8.84/10

Achievements

- Grand Prize (1st/350):** Webgathon 2025 – Ranked **#1 Overall** as a solo developer.
- 3rd Place (Top 2%):** Alameda Hacks 2026 – Global Hackathon | **950+ participants**.
- Best Design Award:** HackMars 1.0 – Ranked **Top UI/UX** among 100+ project submissions.
- Most Coherent Award:** Hoobit International Ideathon 2025 – Awarded for **Problem Articulation**.