

Prajyot Porje

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PROFESSIONAL SUMMARY

Full-stack engineer who independently builds and ships production AI systems - multi-tenant **MCP** infrastructure, self-healing multi-model **LLM** pipelines, and browser-native execution environments adopted by users across **multiple countries**. Delivered client projects for US and India-based businesses. **417 LeetCode** problems solved (32 Hard) and a merged **JupyterLab** open-source contribution.

EDUCATION

PES Modern College of Engineering, Pune

B.E. in Artificial Intelligence and Machine Learning

2023 – 2027 (Expected)

CGPA: 8.04

EXPERIENCE

Software Development Engineer Intern

Jan – Feb 2026

System & Solution

- Implemented Employee Management and Attendance features in HRDesk (production HRMS) – delivered form validations, employee search/filter, and date-based attendance history tracking across the feature lifecycle.
- Triageed and resolved UI bugs in profile management workflows; authored module documentation and contributed through **Git**-based code review in a shared team codebase.

Freelance Full-Stack Developer

Jun 2025 – Jun 2026

Dev Studio – NAMRL, KIYOMI Facilities & cResults Consulting (US Retainer)

- Drove **41,600+ Google search impressions** and **1,280+ organic clicks** across a 4-site multi-brand pharma portfolio via **Rank Math** on-page SEO and optimised content publishing – 3 primary keywords reached **top-3 Google positions** (positions 1.0, 2.0, and 2.8).
- Built custom landing pages for 2 India-based clients using **Next.js**, **TypeScript**, **Tailwind CSS**, **Framer Motion**, and **shadcn/ui** with reusable, section-based architecture for clean handoff.

PROJECTS

DevFlow : AI Code Generation and Execution Platform

April – May 2026

[GitHub](#) | [Live](#)

- Built a fault-tolerant code generation pipeline with a **5-model OpenRouter fallback chain** and automatic API key rotation on rate-limit (429) failures - achieving **99.2% generation uptime** for **25 users internationally**. with 36 completed production workspaces.
- Cut browser-native preview load time **from ~5 minutes to under 60 seconds** by intercepting **Tailwind CSS** config at file-mount to block `node_modules` traversal inside the **WebContainers** WASM virtual filesystem, eliminating main-thread freezes and tab crashes on low-end devices.
- Engineered a **Babel-AST** validation layer with a **Gemini**-powered 2-attempt self-repair loop that auto-corrects LLM-generated syntax errors before mounting code into the browser sandbox - dropping preview crash rate **from ~12% to under 0.5%** across all generated projects.

ContextGraph : Multi-Tenant AI Context Engine with MCP

May – July 2026

[GitHub](#) | [Live](#)

- Built a production multi-tenant **MCP server** (JSON-RPC 2.0) letting AI clients like Claude and Cursor autonomously read/write scoped developer context - secured with **SHA-256**-hashed API keys and zero-trust programmatic **PostgreSQL** isolation enforced at the API layer, preventing cross-tenant data leakage under service-role credentials.
- Designed a self-curating context pipeline: a **5-model OpenRouter cascade** scores session summaries for persistence (0–1.0 relevance) and a weekly **Vercel Cron** applies **8% exponential decay** to stale nodes - keeping AI memory token-efficient without manual pruning.
- Diagnosed and fixed a **WebGL** pointer-event desync between **Three.js** OrbitControls and DragControls causing runtime crashes in the 3D force-directed context visualization - resolved by dynamically disabling OrbitControls during node-drag events via custom graph lifecycle hooks.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C++, SQL (MySQL), HTML/CSS

Frontend: React.js, Next.js, Tailwind CSS, Framer Motion, GSAP, Lenis, Three.js, Radix UI, shadcn/ui, CodeMirror

Backend & AI: Node.js, Express.js, REST APIs, JSON-RPC, MCP, Better Auth, Clerk, OpenRouter, Gemini API

Database, Tools & Platforms: PostgreSQL, Supabase, Convex, Git, GitHub, Vercel, Redis, WebContainers, cPanel

OPEN SOURCE & ACHIEVEMENTS

- Merged **PR #18157** in **JupyterLab** – fixed `fileeditor:change-font-size` to safely handle undefined args, eliminating a crash on argumentless label calls; 1 additional PR under review.
- Solved **417 LeetCode** problems including **32 Hard**, and **150+** GeeksforGeeks problems.
- **Hackathon Finalist** (ADCET 2024, DYPDPU 1.0 2025); qualified for **Avishkar State-Level Innovation Competition**.