

PRAKHAR PORWAL

+91-9415430525 | pporwal2019@gmail.com | [LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [Portfolio](#)

Summary

Full-Stack & AI Engineer specializing in LLM-powered systems, scalable backend architectures, and workflow automation using **MCP** and **n8n**.

Education

Ajay Kumar Garg Engineering College

Bachelor of Technology - Computer Science and Engineering

Ghaziabad, India

July 2026

Technical Skills

Programming Languages: JavaScript (ES6+), TypeScript, Python, Java, C++, SQL, HTML5, CSS3

Frontend Technologies: React.js, Next.js 15, Redux, Tailwind CSS, shaden/ui, Radix UI, Framer Motion, GSAP, Konva.js, WebGL

Backend & Databases: Node.js, Express.js, FastAPI, REST APIs, PostgreSQL, MongoDB, Supabase, Firebase, NextAuth.js

AI & ML: Generative AI, LLMs, Prompt Engineering, Context Engineering, LLM Fine-tuning, LangChain, n8n, OpenAI API, RAG Pipelines, MCP (Model Context Protocol)

Tools & Concepts: Git, Docker, Postman, Agile/Scrum, Data Structures, Algorithms, OOP, System Design, CI/CD

Professional Experience

Post LLM Training Intern

Ethara AI

Feb 2026 – Present

Remote

- Fine-tuning large language models on domain-specific datasets using the **MultiMango** platform, optimizing model behavior through iterative training and evaluation on task-specific benchmarks.
- Curating and preprocessing high-quality **training datasets**, applying **data cleaning, deduplication, and prompt formatting** pipelines aligned with post-training objectives.

Full Stack Developer Intern

The Social Artist

Aug 2025 – Oct 2025

Remote

- Architected and delivered **scalable full-stack applications** serving **10,000+ monthly users**, implementing **RESTful API** architecture with comprehensive error handling and input validation.
- Optimized **PostgreSQL database** performance by designing efficient schemas with **strategic B-tree indexing** and **query optimization**, achieving **40% reduction** in average query execution time from 250ms to 150ms.
- Led **TypeScript migration** across **50+ React components**, implementing **code-splitting** and **lazy loading** that reduced **bundle size by 35%** and improved **TTI by 28%**.

Technical Projects

Vox: Anonymous Messaging Platform | *Next.js 15, TypeScript, MongoDB, NextAuth, Tailwind CSS, WebGL*

- Architected **full-stack messaging app** using **Next.js 15 App Router** with **React Server Components**, reducing **client-side JS bundle by 40%** and optimizing **FCP to under 1.2 seconds**.
- Engineered **security architecture** with **NextAuth.js, cryptographic OTP**, and custom **Sliding Window Rate Limiter**, mitigating brute-force attacks (max 5 attempts/15 min).
- Implemented **type-safe data validation** pipelines using **Zod**, enforcing schema compliance at API boundary to guarantee **database integrity** and prevent **injection vulnerabilities**.

Graft: CLI Task Automation | *Node.js, TypeScript, Google Tasks API, MCP, n8n*

- Built a developer-focused **CLI tool** to manage Google Tasks from terminal, integrating **Google Tasks API** with OAuth authentication for real-time task synchronization.
- Enabled **AI-driven task creation** using **MCP (Model Context Protocol)** and orchestrated **automated workflows** via **n8n**, triggering email reminders for upcoming and overdue tasks.

Achievements & Certifications

- International Conference Publication:** Co-authored research paper on “Hybrid AI-Based Tuberculosis Detection and Regional Environmental Correlation” at ICDPN-2025 (Springer, November 2025).
- Secured finalist position among 50+ teams in Inter-College Hackathon for developing smart grid cybersecurity solution using Python and network monitoring tools.
- Solved 200+ DSA problems on LeetCode | Python Programming Specialization (Infosys Springboard) | AI & ML Certification (HP Life).