

Mayank Mahajan

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PROFILE SUMMARY

Backend-focused Full Stack Developer with experience building production-grade web applications using **TypeScript, Node.js, Express.js, Next.js, PostgreSQL, Prisma, MongoDB, and Redis**. Skilled in designing scalable REST APIs, authentication systems, database architecture, AI-powered applications, and modular backend systems. Passionate about backend engineering, distributed systems, cloud computing, and designing scalable software using modern engineering practices.

EDUCATION

Hanuman Vyam Prasarak Mandal College of Engineering and Technology

Amravati, Maharashtra

Bachelor of Engineering in Information Technology

2024–2028

- Organized college technical events and tech fests

SKILLS

Languages: JavaScript, TypeScript, C++, Python, SQL

Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS, shadcn/ui

Backend: Node.js, Express.js

Databases: MongoDB, PostgreSQL, Redis

ORM/ODM: Mongoose, Prisma

Cloud & DevOps: Docker, GitHub Actions, AWS, Linux, CI/CD

Authentication: JWT, OAuth 2.0, Better Auth, NextAuth.js

Tools & Technologies: Git, GitHub, GitLab, Postman, Turborepo, pnpm

Core Concepts: REST APIs, WebSockets, RBAC, Authentication, Authorization, Database Design, Caching, Rate Limiting, Data Structures & Algorithms

PROJECTS

Neuron – Production-Grade AI Chat Platform

May 2026 – July 2026

- Engineered a production-grade AI chat platform supporting authenticated multi-model conversations, streaming AI responses, persistent chat history, and dynamic access to 100+ AI models through OpenRouter.
- Architected a modular full-stack application using Next.js App Router, Server Components, Server Actions, and Route Handlers across authentication, chat management, AI streaming, and data persistence.
- Implemented secure authentication with 2 OAuth providers (GitHub and Google), protected routes, session management, and user-scoped PostgreSQL data access using Better Auth and Prisma.
- Integrated OpenRouter and the Vercel AI SDK to stream AI responses, persist conversations, and support dynamic model discovery with real-time updates.
- Optimized server-state management using TanStack Query, reducing redundant API requests across chat history, model catalog, and conversation operations while improving UI responsiveness.

VibeCode – Browser-Based Online Code Editor

Feb 2026 – Apr 2026

- Developed a full-stack browser-based code editor supporting 6+ starter project templates, real-time file management, multi-tab editing, and browser-based development workflows.
- Integrated Monaco Editor and WebContainers to enable in-browser code execution, terminal access, and live project previews without requiring a local development environment.
- Implemented secure authentication with GitHub and Google OAuth using NextAuth.js v5, JWT-based sessions, and Prisma-backed user management.
- Designed scalable backend APIs using Next.js App Router and Prisma to manage playgrounds, template snapshots, project metadata, and hierarchical file structures.
- Built an AI-powered code suggestion service that performs language detection, editor-context analysis, prompt generation, and intelligent code completion through an inference API.

ACHIEVEMENTS

- Solved 100+ Data Structures & Algorithms problems on LeetCode.
- Coordinated technical workshops, coding competitions, and campus technology events.