

Amaan Patel

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Profile Summary

Passionate Full Stack Developer skilled in building scalable and interactive web applications using the MERN stack and modern GenAI integrations. Experienced in developing AI-powered tools like chatbots and document intelligence apps. Always exploring innovative ways to merge AI with user-centric design.

Education

Bhagwan Mahavir, Surat

Bachelor of Business Administration

Surat
2021-2024

Projects

LeetLab ~ Coding Practice Platform (Full-Stack MERN)

A LeetCode-like platform where users can solve coding problems, run code via Judge0 API, and track progress.

- Architected and developed RESTful APIs for a coding practice platform with problem management, real-time code execution using Judge0 API, and custom playlist/sheet features for organizing and sharing problem sets.
- Integrated Judge0 API for secure code compilation. JWT-based authentication, role-based access control, automated test case validation, and database migrations using Prisma ORM with PostgreSQL.
- Technologies Used: React, Node, Express, PostgreSQL, Tailwind, ShadcnUI, Judge0, Docker

[GitHub repo](#)

[Live Demo](#)

NotebookLM ~ GenAI Knowledge Assistant (RAG)

A web-based AI notebook where users upload PDF, YouTube URL, Website URL, Text and interact with an intelligent chatbot that understands context.

- Implemented OpenAI API and vector database (Qdrant) for semantic search.
- Built retrieval-augmented chatbot using LangChain + Node.js backend.
- Technologies Used: Next.js, LangChain, Qdrant, OpenAI API, Vercel AI SDK, PostgreSQL

[GitHub repo](#)

[Live Demo](#)

Task Management App (Full-Stack MERN)

Collaborative task tracker for teams with file attachments and status updates.

- Designed and developed the backend for a project to securely manage tasks, subtasks, roles, notes.
- Implemented key features: JWT-based auth, Role-based access control, REST APIs for Projects, Members, Tasks, Subtasks, Notes, File uploads (Cloudinary + Multer), Email notifications (Mailtrap)
- Technologies Used: Node.js, Express.js, MongoDB, Mongoose, Zod, Mailtrap, Postman, Render.

[GitHub repo](#)

[Live Demo](#)

Additional

Languages: JavaScript, TypeScript

Frameworks/Libraries: React.js, Next.js, Tailwind CSS, Express, Tanstack query, Tanstack Router, Zod,

Database Technologies: MongoDB, PostgreSQL

Developer Tools & Technologies: Github, VS Code, Postman, RESTful APIs, JWT