

Aditya Thakur

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Skills

Front End: HTML, CSS, Javascript, TypeScript, React, ContextAPI, Tailwind CSS
Backend: Node.js, Express.js, Django(python)
GenAI: LangChain, LangGraph, Agent SDK, RAG
Languages: JavaScript, TypeScript, Python
Tools: Docker, Git, Github, Postman
Database: MongoDB, PostgreSQL

Education

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| Guru Gobind Singh University , B.Tech Computer Science Engineering | 2021 – 2025 |
| • CGPA: 8.36 | |
| Class 12 , National Victor Public School,CBSE | 2020 - 2021 |
| • Percentage: 83.8% | |
| Class 10 , National Victor Public School,CBSE | 2018 - 2019 |
| • Percentage: 86.4% | |

Experience

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| Full Stack Web Developer, Staar Payout | May 2025 - November 2025 |
| <ul style="list-style-type: none">Improved application security through secure coding practices, and Vulnerability Assessment and Penetration Testing (VAPT).Contributed to front-end enhancements focused on performance, responsiveness, and user experience.Worked on utility logic and interactive features to support better user input handling and security practices.Improved backend robustness through structured error handling and defensive programming techniques. | |

Projects

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| CodeNexus (MERN, Gemini API, Tailwind CSS, ShadCN, Aceternity) | Live Link |
| <ul style="list-style-type: none">Developed a full-stack web IDE that enables users to write, preview, and save HTML/CSS/JS code in real-time, with personalized codebase management via Clerk authentication.Integrated Generative AI (Gemini-2.0-flash) to provide intelligent code suggestions and explanations using prompt-based NLP. | |
| NotebookLM (Next.js, LangChain, OpenAI SDK, RAG, Clerk Auth, ShadCN) | Github |
| <ul style="list-style-type: none">Built an AI-powered retrieval-augmented chatbot using LangChain, OpenAI, and Qdrant, capable of refining user queries, generating hypothetical answers (HyDE), and retrieving semantically relevant information for context-aware responses.Integrated vector similarity search with Qdrant Vector Store and OpenAI embeddings to enable intelligent document retrieval and context-based answer generationImplemented multi-stage prompt engineering (RAG) pipeline query rewriting, | |
| RoughNote (Next.js, NeonDB, Prisma, Clerk Auth, ShadCN) | Live Link |
| <ul style="list-style-type: none">Built a full-stack journal application using Next.js and React, enabling users to securely write, manage, and analyze personal journal entries.Created a Mood Analytics Dashboard with graphical analysisDesigned a feature to create and manage collections, allowing users to group and organize their entries effectively. | |