

# Aditya Thakur

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## Skills

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

## Experience

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<b>Full Stack Web Developer, Staar Payout</b>	May 2025 - November 2025
• 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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<b>CodeNexus</b> (MERN, Gemini API, Tailwind CSS, ShadCN, Aceternity)	<a href="#">Live Link</a>
• 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.	

<b>NotebookLM</b> (Next.js, LangChain, OpenAI SDK, RAG, Clerk Auth, ShadCN)	<a href="#">Github</a>
• 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 generation	
• Implemented multi-stage prompt engineering (RAG) pipeline query rewriting,	

<b>RoughNote</b> (Next.js, NeonDB, Prisma, Clerk Auth, ShadCN)	<a href="#">Live Link</a>
• 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 analysis	
• Designed a feature to create and manage collections, allowing users to group and organize their entries effectively.	