



Ayush Pal

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SUMMARY

Final-year B.Tech ECE student with a strong foundation in **Full Stack Web Development (MERN)**. Passionate about building intelligent digital tools with clean UI/UX, scalable architecture, and modern deployment practices.

RESEARCH INTERESTS

Exploring the intersection of **Generative AI**, **AI Agents**, and **Multimodal Interfaces** to assist creators, learners, and developers. Particularly interested in applying **LLMs** for intelligent summarization and automation, and integrating them with modern web stacks like **Next.js**, **Firebase**, and **Serverless Backends** to build responsive and intelligent applications.



EDUCATION

JSS Academy of Technical Education <i>B.Tech ECE</i>	June 2026
DAV Public School Khadia <i>Intermediate</i>	June 2021

SKILLS

Languages: JavaScript, TypeScript, Python, C/C++,
Web Technologies: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Redux, TanStack Router
Databases & Backend: MongoDB, Firebase (Realtime DB, Auth, Storage), PostgreSQL, Serverless Functions
DevOps & Tools: Git/GitHub, Docker, Postman, VS Code, Vercel, Netlify, GitHub Actions
Cloud & Hosting: Vercel, Firebase Hosting, GitHub Pages
Other Skills: Real-time Communication (Socket.IO), CI/CD Basics, WebSockets, Authentication, SEO Optimization

PROJECTS

NakliZon – E-commerce Platform <i>MERN Stack, Stripe, Tailwind CSS</i> " Live Link "	Nov 2024
<ul style="list-style-type: none">Built a full-fledged e-commerce site with features like product filtering, cart, checkout, and order management.Implemented an admin panel for product CRUD, JWT-based user authentication, and secure Stripe payments.	
ChotaLink – URL Shortener <i>MERN, Tailwind, Vercel</i>  Code	June 2024
<ul style="list-style-type: none">Developed a minimal, full-stack link shortener with user authentication and custom dashboards.Used MongoDB for storage, TanStack Router for navigation, and deployed using Vercel.	
Kabutar.io - Group Chat with ai agent (Cross-platform) <i>React, Socket.io</i>  Code	Mar 2025
<ul style="list-style-type: none">Created a group chat and use gemini 2.5 model as llm .Implemented responsive UI (Tailwind for web, Styled Components for mobile) and deployed with GitHub Actions.	
Writo.io <i>Blog writing site (In Progress)</i>	
<ul style="list-style-type: none">Designing an AI agent that can read, understand, and summarize blogs in human-friendly language.Helps users who struggle to write or understand content by generating smart summaries and explanations.	

COURSEWORK & MOOCs

Full Stack Web Development Cohort 2.0 <i>100xDevs by Harkirat Singh</i>
<ul style="list-style-type: none">Hands-on training in MERN stack, CI/CD pipelines, Docker, Serverless architecture, and System Design.
Front-End Domination: Create Anything with Code <i>Sheryians Coding School</i>
<ul style="list-style-type: none">Practiced interactive design, layout techniques, and component-based architecture with real-world projects.