

Aditya Thakur

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Education

Bachelor of Science in Computer Science

2024 – 2027

Lal Bahadur Shastri Vyavsayik Adhyayan Mahavidyalaya

Harda, Madhya Pradesh

Technical Skills

- **Languages:** JavaScript, TypeScript, Java, HTML5, CSS3
- **Frontend:** React.js, Next.js, Tailwind CSS, Bootstrap
- **Backend:** Node.js, Express.js, RESTful APIs, MVC Architecture
- **Databases & ORM:** PostgreSQL, MongoDB, Prisma ORM, Zod
- **AI / DevOps:** Google Gemini AI, Docker, Git, GitHub, Vercel, Render, Neon
- **Authentication / Realtime:** JWT, HTTP-only Cookies, WebRTC, Socket.IO
- **Core Concepts:** Data Structures & Algorithms, OOP, DBMS, OS, Computer Networks

Projects

SmartSpend – AI-Powered Personal Finance Platform — [Live](#) — [GitHub](#)

2026

- Built and deployed a full-stack personal finance platform using **Next.js**, **Express.js**, **PostgreSQL**, **Prisma ORM**, and **Google Gemini AI**, with **14 REST API endpoints**.
- Implemented JWT authentication using **HTTP-only cookies**, protected routes, Zod input validation, persistent sessions, and production CORS configuration.
- Designed a layered backend architecture with Routes, Controllers, and Services for authentication, transaction management, analytics, and AI-powered financial insights.
- Developed transaction management with search, category/type/date filters, server-side pagination, and complete income/expense CRUD operations.
- Built a responsive dashboard and analytics module with **8 financial summaries/visualizations** and **5 financial insights**, covering spending trends, category distribution, and income vs. expense analysis.
- Integrated **Google Gemini AI** to analyze transaction data and generate spending analysis, budget recommendations, saving suggestions, overspending detection, and personalized financial tips.

TalkSphere – Real-Time Video Conferencing Platform — [Live](#) — [GitHub](#)

2025 – 2026

- Built a real-time video conferencing platform using **React**, **Node.js**, **Socket.IO**, **WebRTC**, and **MongoDB**, tested with up to **4 concurrent users**.
- Implemented peer-to-peer audio/video communication using WebRTC with Socket.IO-based signaling, meeting rooms, participant synchronization, and ICE candidate exchange.
- Developed real-time messaging, screen sharing, camera/microphone controls, call termination, and multi-user video conferencing.
- Managed peer connection lifecycle and user disconnections while persisting meeting metadata and chat history using MongoDB.

Skill Share – Full-Stack Professional Networking Platform — [Live](#) — [GitHub](#)

2025 – 2026

- Built a full-stack professional networking platform using **Next.js**, **React**, **Node.js**, **Express.js**, and **MongoDB**.
- Implemented JWT authentication, protected routes, user profiles, post creation, likes, comments, and connection requests.
- Designed RESTful APIs and MongoDB data models for users, posts, and social interactions following MVC architecture.
- Integrated **Cloudinary** for image uploads and deployed a responsive interface optimized for desktop and mobile devices.

Coursework

Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming