

# RAVINDRA YADAV

## AI & Full-Stack Developer

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## PROFESSIONAL SUMMARY

AI & Full-Stack Developer passionate about building production-ready web apps and AI products. Skilled in scalable backend systems, real-time apps, authentication, and AI platforms using React, Next.js, Node.js, TypeScript, MongoDB, PostgreSQL, Redis, Docker, and LLM APIs with strong CS fundamentals.

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, Java, C, C++

**Frontend:** React.js, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap, Vite

**Backend:** Node.js, Express.js, REST APIs, MVC Architecture, JWT, Passport.js, Socket.IO, WebSockets, Rate Limiting

**AI / GenAI:** OpenAI API, Gemini API, Vercel AI SDK, Tool Calling, Streaming, Prompt Engineering, RAG Fundamentals, Embeddings, Multi-LLM

**Databases & Cloud:** MongoDB, PostgreSQL, MySQL, Mongoose, Drizzle ORM, Docker, Git, Redis, Upstash, Vercel, Render, Hostinger

**CS & Networking:** Operating Systems, Computer Networks, OOP, System Design (HLD), Theory of Computation, TCP/IP, HTTP/HTTPS, DNS

## PROJECTS

### ChatMate - AI-Powered Multi-LLM Chat Platform : [Demo](#)

*React • Next.js • TypeScript • Node.js • MongoDB • OpenAI • Gemini • AI SDK • Tailwind CSS*

- Engineered a production-style AI chat platform supporting multiple LLM providers with real-time streaming responses and modular AI architecture.
- Built conversation branching, enabling users to continue discussions from any previous message while preserving complete conversation history.
- Implemented tool calling to extend AI capabilities and designed reusable React components for a responsive ChatGPT-inspired UI.

### ConvoX - Real-Time Chat Application : [Demo](#)

*MongoDB • Express.js • React.js • Node.js • Socket.IO • Redis • JWT • Docker*

- Developed a full-stack real-time messaging platform using MERN stack, Socket.IO, JWT auth, friend requests, and Redis caching for scalability.
- Added AI chatbot functionality, Dockerized backend services, and designed maintainable REST APIs following MVC architecture.

### MentorOS - AI Learning Platform : [Demo](#)

*Next.js • React • PostgreSQL • Drizzle ORM • Clerk • Redis • OpenAI • Gemini*

- Built an AI-powered mentoring platform enabling interactions with specialized mentor personas using Next.js App Router and PostgreSQL.
- Integrated multiple LLM providers, Clerk authentication, and Redis-based rate limiting for secure API access.

### Momentum - Productivity Progressive Web App : [Demo](#)

*React • TypeScript • Tailwind CSS*

Developed an installable Progressive Web App for habit tracking and study management with productivity-focused workflows and fast performance.

## TECHNICAL WRITING

**Technical Content Author:** Published technical articles simplifying concepts including

- Where RAG Fails: Understanding the Limitations ↗
- Context Window — Humans vs. LLMs: How They Remember Information ↗
- How ChatGPT Understands Your Questions: From Text to Intelligence ↗

## EDUCATION

**Bachelor of Computer Applications (BCA)** — Dr. Shyama Prasad Mukherjee University, Ranchi | CGPA: 9.1 (2024 – 2027)

**Senior Secondary (Class XII)** — St. Xavier's College, Ranchi | JAC — 87% (2024)