RAHUL SHARMA

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PROFESSIONAL SUMMARY

Full-Stack Engineer building scalable web applications (React/Node.js/MongoDB) serving 400+ concurrent users with real-time features and secure authentication. Delivered 6 production projects with WebSocket infrastructure, OAuth/JWT, cloud integrations, and 40% performance gains. Current focus: Multi-model AI assistants integrating GPT-4, Claude, and LLaMA with tool calling and context management capabilities.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, HTML5, CSS3

Frontend: React.js, Redux, Zustand, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, WebSocket (Socket.io), JWT, OAuth 2.0, Passport.js

Database: MongoDB, Mongoose, MySQL

Generative AI: LLM Integration (GPT-4, Claude 3, LLaMA 3), Groq API, Tool Calling, Prompt Engineering

Tools: Git/GitHub, Postman, Vite, npm, Cloudinary

SELECTED PROJECTS

Axon - Multi-Model AI Chat Platform | GitHub | Live | *Jan 2026*

- Integrated 5 production LLMs (GPT-4, Claude 3.5, LLaMA 3.1, Mistral, Gemma) via Groq API with function calling, achieving 2.5s response time and processing 50,000+ words monthly with 99.2% uptime
- Developed text-to-speech system with 5 voice variants and 5 level speed, real-time syntax highlighting for 52 languages, implementing dual authentication (OAuth 2.0 + Email) reducing signup friction by 60%
- Designed responsive UI with 20+ React components achieving 95+ Lighthouse score, supporting PDF export, chat pinning and message search across 1,000+ stored conversations

Tech: React.js, Express.js, MongoDB, Groq API, Passport.js, react-markdown, Tailwind CSS

SyncChat - Real-Time Messaging Platform | Github : Backend   Frontend | Live | *Aug - Sep 2025*

- Deployed real-time messaging platform serving 400+ concurrent users with <50ms latency using Socket.io WebSocket infrastructure with automatic reconnection and fallback protocols
- Engineered secure authentication combining JWT and OAuth 2.0, implementing role-based access control and scalable file sharing supporting 50+ formats with 85% reduction in failed uploads
- Built component-based architecture with 15+ reusable React components and Zustand state management, reducing code duplication by 40% across 5,000+ lines

Tech: React.js, Node.js, Express.js, MongoDB, Socket.io, JWT, Zustand, Tailwind CSS, Cloudinary

Homitly - Hotel Booking Platform | Github | Live| *July - Aug 2025*

- Built property rental platform with geolocation-based search using Mapbox API, implementing 5 filter categories and location-based discovery within customizable radius parameters
- Optimized media delivery via Cloudinary CDN reducing page load time from 3.2s to 1.9s (40% improvement) and implementing lazy loading, decreasing bandwidth consumption by 55%
- Implemented 3-tier authentication (User/Host/Admin) with Passport.js and automated booking emails via Nodemailer with 98% delivery rate, following RESTful MVC architecture

Tech: Node.js, Express.js, MongoDB, EJS, Passport.js, Cloudinary, Mapbox API, Nodemailer

EDUCATION

Bachelor of Technology - Computer Science Engineering | *Expected 2026* | *CGPA: 7.92/10*

Deen Dayal Upadhyaya Gorakhpur University , Gorakhpur, Uttar Pradesh

CERTIFICATIONS

- Cyber Security & Privacy - **NPTEL (IIT Initiative)** | 2024
- Machine Learning with Python - **NIELIT** | 2024
- Coding & Programming Fundamentals - **Samsung Innovation Campus** | 2024