RAM KRISHNA YADAV
FULL STACK ENGINEER

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SUMMARY

Full Stack Engineer with proven expertise in building production-ready MERN stack applications. Specialized in real-time systems, enterprise platforms, and AI integration. Experienced in RESTful API development, WebSocket communication, database design (PostgreSQL, MongoDB), and VPS and Cloud deployment. Strong focus on secure authentication, performance optimization, and scalable architecture.

SKILLS

- **Backend Development : Javascript, Nodejs, Express,Restful API,Python,GRAPH QL,JWT ,Typescript**
- **Frontend Development : React Js,Context Api, Redux,,HTML5, Tailwind CSS,Bootstrap, SEO Optimization,TypeScript**
- **Database Development :MongoDB, mySQL, POSTGRE SQL**
- **Deployment : Vercel Hosting, VPS Hosting, Microsoft Azure**
- **Miscellaneous : Git Version Control, FIgma, WebSockets**

PROFESSIONAL EXPERIENCE

MERN Stack Intern at Blue Fox Pvt. Ltd. │ Oct 2024-Dec 2024

- Built responsive, SEO-optimized SaaS applications for hotel, e-commerce, and restaurant systems.
- Developed RESTful APIs, integrated third-party services, and implemented JWT/OAuth for secure authentication.
- Optimized performance through code refactoring, caching, and database tuning.

PROJECTS

XCodeGen-AI Assistant: Live │ Github

Tech Stack: React.js, Node.js, Express.js, MongoDB,Typescript,Llama,Gemini,Mistral

Developed a specialized AI assistant designed to streamline software development workflows. XCodeGen features both Developer Mode and Chat Mode to generate code, documentation, and project structures. Integrated a custom inbuilt file system, enabling direct file-level modifications by the LLM without requiring manual file uploads. Leveraged multiple LLMs (Llama, Gemini, Mistral, Qwen3, etc.) for optimized response quality across diverse tasks like code generation, refactoring, and context-aware suggestions.

ChessOnline - Multiplayer Chess Game: Live │ Github

Tech Stack: React.js, Node.js, Express.js, WebSocket, MongoDB, Tailwind CSS, TypeScript

Developed a real-time multiplayer chess platform enabling seamless online gameplay with instant move synchronization and low-latency communication through WebSocket technology with private room feature. Built an interactive, responsive chessboard interface using React.js featuring drag-and-drop functionality, comprehensive move validation, and complete chess rule enforcement including castling, en passant, and checkmate detection. Engineered scalable backend architecture with Node.js and Express.js to handle concurrent game sessions, room management, and real-time player matching. Implemented efficient state management for game logic, turn-based gameplay, and live score tracking across multiple simultaneous chess matches. Optimized performance through real-time event handling, memory-efficient game state storage, and responsive UI design ensuring smooth gameplay experience across desktop and mobile devices.

CRM System - Medical Equipment Distribution Platform : Live │ Github

Tech Stack: Next.js , TypeScript, Express.js, PostgreSQL, Prisma ORM, Redux Toolkit, JWT

Developed a comprehensive medical equipment distribution platform connecting healthcare providers with distributors. Built multi-role authentication system with JWT and refresh tokens, role-based access control for admin, distributor, and customer portals. Implemented real-time inventory tracking, order management with PDF invoice generation, and admin analytics dashboard. Designed scalable REST API architecture with Prisma ORM and PostgreSQL, featuring advanced search/filtering, automated reorder alerts, and complete order lifecycle management.

ChatConnect- Realtime Chat App: Live │ Github

Tech Stack: React, Node.js, WebSocket, Express

Developed a real-time chat application leveraging WebSockets, Node.js, Express.js, and React.js to enable instant, bi-directional communication across users. Designed and implemented scalable server-side architecture with Node and Express, ensuring low-latency messaging and robust connection handling. Developed a dynamic, responsive front-end with React, optimizing user interactions and ensuring cross-device compatibility. Focused on performance optimization, security (authentication, data protection), and seamless user experience, delivering a high-speed, scalable, and reliable chat platform for modern web users.

WMS-Warehouse Management System: Live │ Github

Tech Stack: React, TypeScript, Node.js, Express.js, PostgreSQL, Tailwind CSS, JWT

Developed a comprehensive warehouse management system with real-time inventory tracking, order management, and supplier management capabilities. Built responsive dashboard with live analytics, multi-warehouse support, and role-based access control. Implemented complete CRUD operations for inventory, orders, and suppliers with advanced search and filtering. Integrated JWT authentication, password hashing with bcrypt, and PostgreSQL database with connection pooling. Designed mobile-first responsive UI with dark/light theme toggle and real-time notifications for low stock alerts and order updates.

EDUCATION

Bachelor in Computer Engineering │ Oct 2024-2028

Tribhuvan University, IOE Purwanchal Campus, Dharan (working while persuing bachelors)

- **Languages :** English, Nepali,Hindi
- **Certifications :** Meta Frontend Development, WS Cube Tech SEO Fundamentals, ACES Hackathon
- **Soft Skills**: Team Leadership, Problem-solving, Communication, Results-oriented