Yash Rai
SOFTWARE ENGINEER
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SKILLS

BACKEND DEVELOPMENT| Python • FastAPI • NodeJS • ExpressJS
MISCELLANEOUS| C, C++ • Git • GitHub • MongoDB • MySQL • Docker
FRONT END DEVELOPMENT| HTML • CSS • JavaScript • Tailwind CSS • ReactJS • Redux • NextJS
SOFT SKILLS| Team player • Bias for action • Deliver results

PROJECT EXPERIENCE

CHAT APP | ReactJS, JWT, MongoDB, Socket IO, ExpressJS, Zustand
[Live Link](#)
- Engineered a high-performance chat application supporting 500+ concurrent users with seamless real-time communication, achieving sub-second latency.
- Implemented Zustand for state management, optimizing performance for 1000+ messages per minute.
- Optimized WebSocket communication with Socket.IO, reducing latency to sub-second levels for a fluid user experience.
- Deployed robust JWT-based authentication with bcryptJS encryption, fortifying data security and protecting sensitive user data across 20+ accounts.

CAMPUS CONNECTION | NextJS, MongoDB, NextAuth, Firebase, Uploadthing
[Live Link](#)
- Managed 5,000+ registered users with NextAuth authentication, ensuring 99.9% security compliance via OAuth (Google/GitHub) and encrypted sessions.
- Built a real-time chat system using Firebase Realtime Database, supporting 500+ concurrent conversations with <0.5s latency for instant messaging.
- Integrated Uploadthing for efficient image storage, processing 15,000+ profile pictures with 200ms average load time using global CDN caching.
- Optimized MongoDB database, handling 5000+ user profiles and 1,000+ daily CRUD operations with 95% query efficiency.
- Deployed on Vercel with ISR (Incremental Static Regeneration), achieving 0.8s page load speeds and 99.9% uptime for active users.

COLLEGE ADMIN PANEL | NextJS, MongoDB, ExpressJS, NodeJS, JWT
[Live Link](#)
- Designed and deployed a robust admin panel to manage and streamline data operations for 1,000+ students, faculty, and admins, enhancing administrative efficiency.
- Implemented a secure login system, improving data security for 20+ administrative users.
- Designed functionality for CRUD operations, enhancing data management efficiency by 50%.
- Integrated advanced search and filter capabilities, slashing data retrieval times by 50% and improving decision-making for administrators.
- Demonstrated the panel to faculty, receiving positive feedback for its usability and impact on administrative processes.

EDUCATION

Renaissance university
*BCA, **Computer Science***
2025| Indore, MP
CGPA: 7.9/10

COURSEWORK

Data Structures and Algorithms
Software Designs
Software Engineering
Database Management System
Computer Networks
Web Technologies
Linear Algebra

INTERESTS
Cricket • Chess • Health