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.

BOOK STORE | ReactJS, MongoDB, ExpressJS, NodeJS
Live Link
- Developed a scalable inventory management system for a bookstore, efficiently handling 500+ book entries and enabling real-time updates.
- Enabled full CRUD operations, facilitating inventory updates and management.
- Designed an intuitive, responsive UI with ReactJS, elevating user engagement and streamlining navigation by 40%.
- Architected a backend with NodeJS and ExpressJS, handling transactions for over 500 daily operations.
- Leveraged MongoDB to create a highly scalable data storage solution, managing over 1,000 records with superior query efficiency.

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