

Sourav Kumar

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CAREER SUMMARY

Frontend / MERN Stack Developer with hands-on experience in building AI-powered, real-time, and full-stack web applications using React.js, Node.js, Express.js, MongoDB, and JavaScript (ES6+). Skilled in REST APIs, Authentication, State Management, Payment Integration, and Responsive UI Development.

TECHNICAL SKILLS

Frontend: HTML5, CSS3, JavaScript (ES6+), React.js, Redux Toolkit, React Query, Context API, Axios, Tailwind CSS, Bootstrap, Framer Motion

Backend: Node.js, Express.js, RESTful APIs, JWT Authentication, Socket.IO

Database: MongoDB, MySQL

Tools & Platforms: Git, GitHub, Postman, VS Code, Vercel, Render, Cloudinary, Stripe

AI & Integrations: Gemini AI, Stripe Payment Gateway

Core Concepts: MERN Stack Development, API Integration, CRUD Operations, Authentication and Authorization, State Management, Real-Time Communication, Responsive Web Design

PROJECT EXPERIENCE

ExamNotes AI (MERN + Gemini AI + Stripe) Feb 2026 – May 2026 [Code Link](#) | [Live Link](#)

- Built an AI-powered exam notes platform using React.js, Node.js, Express.js, MongoDB, and Gemini AI to generate structured notes, revision points, diagrams, charts, and important questions.
- Implemented secure Google Authentication using Firebase, JWT, HTTP-only cookies, and protected routes for user-specific access and data security.
- Designed dynamic prompt engineering and JSON-based AI response handling, enabling reliable rendering of Markdown notes, Mermaid diagrams, and Recharts visualizations.
- Developed note history management and PDF export functionality, allowing users to securely store, retrieve, and download AI-generated notes.
- Integrated Stripe Checkout and Webhooks to implement a credit-based monetization system with automated credit updates and payment verification.

Real-Time Chat Application (MERN + Socket.IO) Nov 2025 – Jan 2026 [Code Link](#) | [Live Link](#)

- Developed a full-stack real-time chat application using React.js, Node.js, Express.js, and MongoDB
- Implemented real-time messaging and online/offline user tracking using Socket.IO
- Built secure JWT authentication and authorization system for user login and access control
- Integrated RESTful APIs for message storage, retrieval, and real-time communication
- Developed features like user search, emoji support, image sharing, and profile management
- Managed global state using Redux Toolkit and designed responsive UI using Tailwind CSS

Job Portal Web Application (MERN Stack) Jul 2025 – Oct 2025 [Code Link](#) | [Live Link](#)

- Developed a full-stack Job Portal application using MERN Stack with separate dashboards for recruiters and job seekers.
- Implemented JWT-based authentication and role-based authorization to secure application access and user actions.
- Created RESTful APIs for job management, application processing, profile updates, and search/filter functionalities.
- Integrated Cloudinary, Multer, and MongoDB for resume uploads, file storage, and data persistence.
- Built a responsive React.js + Tailwind CSS interface with complete CRUD operations and optimized user experience.

Education

St. Xavier's College Of Management And Technology, Patna

June 2020 – July 2023

- Course: Bachelor of Computer Applications(BCA)