

Yash Kumar Singh

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EDUCATION

- **National Institute Of Technology Durgapur** 2024–2028
B.Tech in Chemical Engineering CGPA: 7.42
- **DAV Public School, Raniganj** 2023
Senior Secondary (XII), CBSE – Science
- **DAV Public School, Nimcha** 2021
Secondary (X), CBSE

TECHNICAL SKILLS

- **Frontend:** React.js, Next.js, Tailwind CSS, Redux, Framer Motion, Chart.js
- **Backend:** Node.js, Express.js, REST APIs, Socket.io
- **Database & Auth:** MongoDB, Clerk, JWT, NextAuth.js, bcrypt
- **Languages:** JavaScript (ES6+), TypeScript, C++, C
- **Concepts:** Data Structures & Algorithms, OOP, MVC Architecture
- **Tools:** Git, GitHub, Postman, Vercel, Render, Figma
- **Soft Skills:** Problem Solving, Teamwork, Adaptability, Communication

EXPERIENCE

- **Full Stack Developer Intern**, Techxica Technology Pvt. Ltd. Dec 2025 – Present
– Developing scalable web applications using MERN stack and Next.js with authentication, REST APIs, and real-time features.
- **Member**, SAIC (Student Alumni Interaction Cell), NIT Durgapur Feb 2025 – May 2025
– Orchestrated Alumination 2025, the inaugural Alumni Fest of NIT Durgapur, managing logistics and alumni coordination.

PROJECTS

- **BudgetTracker AI** [Live Demo](#) | [GitHub Repo](#)
Tech Stack: Next.js (TypeScript), TailwindCSS, MongoDB, Clerk Auth, Chart.js, OpenRouter AI
– Engineered a full-stack personal finance application with **AI-powered expense categorization**, automating ~ **90%** of manual data entry using OpenRouter API integration.
– Implemented **interactive data visualizations** with Chart.js for spending analytics and built secure authentication using Clerk with role-based access control.
– Optimized MongoDB database queries and indexing strategies, achieving ~ **40%** performance improvement in data retrieval and enhancing user experience with responsive dark/light theme UI.
- **Expense Splitter App** [Live Demo](#) | [GitHub Repo](#)
Tech Stack: React, TailwindCSS, Node.js, Express.js, MongoDB, Socket.io
– Developed a real-time collaborative expense management platform with **WebSocket integration** using Socket.io, enabling instant notifications and group chat with < **100ms** latency.
– Built RESTful APIs with Node.js and Express.js for automated expense splitting, balance calculations, and group management, reducing manual effort by ~ **80%**.
– Designed responsive frontend with React and TailwindCSS, implementing code splitting and lazy loading to optimize load performance by ~ **30%** across devices.
- **Secure Notes App** [GitHub Repo](#)
Tech Stack: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB
– Built a secure note-taking application with complete **CRUD operations** and user-specific access control, implementing JWT-based authentication and bcrypt password hashing for data security.
– Developed RESTful API endpoints with input validation and error handling using Node.js and Express.js, ensuring reliable data persistence in MongoDB.
– Designed minimal, privacy-focused user interface with responsive design principles, emphasizing usability and seamless navigation across all screen sizes.

ACHIEVEMENTS

- Solved **170+** problems on **LeetCode**, demonstrating strong proficiency in Data Structures and Algorithms.
- Contributed **500+** times on **GitHub**, showcasing consistent coding practice and project development.