

Yash Kumar Singh

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SUMMARY

Full-Stack Web Developer (MERN & Next.js) with experience building and deploying production-grade apps featuring authentication, REST APIs, and real-time collaboration. Solved **170+ LeetCode problems** and made **500+ GitHub contributions**, showcasing strong analytical ability and consistent coding practice. Eager to contribute to scalable web products through a winter internship, combining technical depth with design-driven execution.

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, Vercel, Render, Figma
- **Soft Skills:** Problem Solving, Teamwork, Adaptability, Communication

PROJECTS

- **BudgetTracker AI** [Live Demo](#) | [GitHub Repo](#)
Tech Stack: Next.js (TypeScript), TailwindCSS, MongoDB, Clerk Auth, Chart.js, OpenRouter AI
 - **Developed** an intelligent personal finance tracker that **analyzes, visualizes, and manages** expenses with AI integration.
 - Built **AI-powered insights** using OpenRouter (OpenAI-compatible API), automating **~ 90%** of manual expense categorization.
 - Designed smart analytics dashboards with **Chart.js** to visualize spending trends and savings goals.
 - Integrated **secure authentication via Clerk**, ensuring seamless and protected user access.
 - Delivered a **modern responsive UI** with TailwindCSS and Dark/Light mode for superior user experience.
 - Optimized MongoDB queries, **boosting data retrieval performance by ~ 40%**.
- **Expense Splitter App** [Live Demo](#) | [GitHub Repo](#)
Tech Stack: React, TailwindCSS, Node.js, Express.js, MongoDB, Socket.io
 - **Engineered** a full-stack expense manager that **automated splitting and balance tracking**, reducing manual calculation effort by **~ 80%**.
 - Implemented real-time group chat using **Socket.io**, achieving instant communication with **< 100ms** latency.
 - Added instant notifications for expenses, new members, and updates, improving overall group coordination.
 - Delivered a fully responsive UI, **optimizing load speed by ~ 30%** across devices via efficient component loading and compression.
- **Secure Notes App** [GitHub Repo](#)
Tech Stack: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB
 - **Developed** a secure notes management platform enabling users to create, edit, and delete personal notes with user-specific access control.
 - Implemented robust **JWT authentication** and **bcrypt password hashing** to ensure privacy and protect user credentials.
 - Built efficient server-side routes using **Node.js & Express.js**, ensuring reliable data handling and validation.
 - Delivered a responsive and minimal interface focused on privacy, usability, and smooth CRUD operations.

LEADERSHIP EXPERIENCE

- **SAIC (Student Alumni Interaction Cell) NIT Durgapur** Feb 2025 – May 2025
Member
 - **Orchestrated Alumination 2025** (the first Alumni Fest of NIT Durgapur), coordinating all event timelines, alumni networking sessions, and on-site logistics for smooth execution.