

# Yash Kumar Singh

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## EDUCATION

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| • <b>National Institute Of Technology Durgapur</b> | 2024–2028  |
| B.Tech in Chemical Engineering                     | CGPA: 7.42 |
| • <b>DAV Public School, Raniganj</b>               | 2023       |
| Senior Secondary (XII), CBSE – Science             |            |
| • <b>DAV Public School, Nimcha</b>                 | 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

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|---|---------------------|
| • <b>Full Stack Developer Intern</b> , 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. |                     |
| • <b>Member</b> , 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

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|---|---|
| • <b>BudgetTracker AI</b>   | <a href="#">Live Demo</a>   <a href="#">GitHub Repo</a> |
| Tech Stack: Next.js (TypeScript), TailwindCSS, MongoDB, Clerk Auth, Chart.js, OpenRouter AI   |   |
| – Engineered a full-stack personal finance application with <b>AI-powered expense categorization</b> , automating ~ <b>90%</b> of manual data entry using OpenRouter API integration.             |   |
| – Implemented <b>interactive data visualizations</b> 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 ~ <b>40%</b> performance improvement in data retrieval and enhancing user experience with responsive dark/light theme UI. |   |

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|---|---|
| • <b>Expense Splitter App</b>   | <a href="#">Live Demo</a>   <a href="#">GitHub Repo</a> |
| Tech Stack: React, TailwindCSS, Node.js, Express.js, MongoDB, Socket.io   |   |
| – Developed a real-time collaborative expense management platform with <b>WebSocket integration</b> using Socket.io, enabling instant notifications and group chat with < <b>100ms</b> latency. |   |
| – Built RESTful APIs with Node.js and Express.js for automated expense splitting, balance calculations, and group management, reducing manual effort by ~ <b>80%</b> .                          |   |
| – Designed responsive frontend with React and TailwindCSS, implementing code splitting and lazy loading to optimize load performance by ~ <b>30%</b> across devices.                            |   |

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|--|-----------------------------|
| • <b>Secure Notes App</b>  | <a href="#">GitHub Repo</a> |
| Tech Stack: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB  |                             |
| – Built a secure note-taking application with complete <b>CRUD operations</b> 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.