

# Yash Kumar Singh

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Github: [github.com/coder40425](https://github.com/coder40425) | Portfolio: [yash-dev-portfolio-website.vercel.app](https://yash-dev-portfolio-website.vercel.app)

LeetCode: [leetcode.com/coderx404](https://leetcode.com/coderx404) | CodeChef: [codechef.com/users/coderxx404](https://codechef.com/users/coderxx404)

## SUMMARY

Full Stack Developer with hands-on experience building production-ready web applications using MERN stack and Next.js. Proficient in developing RESTful APIs, implementing real-time communication with WebSockets, and integrating AI-powered functionalities. Strong foundation in Data Structures, Algorithms, and modern web technologies with focus on performance optimization and scalable architecture.

## EDUCATION

- National Institute Of Technology Durgapur** 2024–Present  
B.Tech in Chemical Engineering CGPA: 7.42  
*Relevant Coursework:* Data Structures & Algorithms, Computer Programming (C)

## TECHNICAL SKILLS

- Languages:** JavaScript (ES6+), TypeScript, C++, C
- Frontend:** React.js, Next.js, Tailwind CSS, Redux, Framer Motion, Chart.js
- Backend:** Node.js, Express.js, RESTful APIs, WebSockets, Socket.io
- Database & Auth:** MongoDB, MySQL, Redis, Clerk, JWT, NextAuth.js, bcrypt
- Developer Tools:** Git, GitHub, Postman, Vercel, Render, Figma
- Core Competencies:** Data Structures & Algorithms, OOP, DBMS, MVC Architecture

## EXPERIENCE

- Full Stack Developer Intern**, Techxica Technology Pvt. Ltd. Nov 2025 – Present
  - Developed e-commerce SaaS features including product management, order workflows, and payment gateway integration.
  - Rebuilt company website using React and Tailwind CSS with responsive components and RESTful API integration.
  - Collaborated via Git workflows and GitHub PR reviews maintaining code quality and delivering production-ready solutions.

## PROJECTS

- BudgetTracker AI** [Live Demo](#) | [GitHub Repo](#)  
*Tech Stack:* Next.js 14 (TypeScript), TailwindCSS, MongoDB, Clerk Auth, Chart.js, OpenRouter API
  - Built expense tracker with OpenRouter LLM API for AI categorization across 6+ categories, reducing manual entry by ~ 90%.
  - Implemented Chart.js analytics dashboard with bar/pie charts for spending trends supporting dark/light mode.
  - Integrated MongoDB connection pooling and AI-generated personalized spending insights with budget recommendations.
  - Developed Clerk authentication with protected routes and type-safe TypeScript API endpoints for enhanced security.
- Expense Splitter App** [Live Demo](#) | [GitHub Repo](#)  
*Tech Stack:* React, TailwindCSS, Node.js, Express.js, MongoDB, Socket.io
  - Developed real-time expense platform using Socket.io WebSockets with < 100ms latency, supporting 20+ concurrent groups.
  - Built Express.js RESTful API with flexible splitting algorithms and automated calculations, reducing manual work by ~ 80%.
  - Implemented React.lazy() code-splitting for route-based lazy loading, reducing initial bundle size by ~ 30%.
  - Designed responsive TailwindCSS UI with MongoDB schema for persistent group storage and expense tracking.
- LRU Cache Implementation** [GitHub Repo](#)  
*Tech Stack:* C++, STL, Data Structures
  - Implemented LRU Cache with  $O(1)$  get/put operations using `unordered_map` and a doubly linked list.
  - Designed an automatic eviction policy enabling constant-time updates and memory-efficient key management.
- Secure Notes App** [GitHub Repo](#)  
*Tech Stack:* HTML, CSS, JavaScript, Node.js, Express.js, MongoDB
  - Built notes application with JWT authentication and bcrypt hashing for secure sessions and protected API endpoints.
  - Developed Express.js RESTful API with CRUD operations, input validation, error handling middleware, and MongoDB queries.
  - Designed responsive vanilla JavaScript UI without external dependencies for seamless cross-device note management.

## ACHIEVEMENTS & LEADERSHIP

- Solved 180+ problems on LeetCode, demonstrating strong proficiency in Data Structures and Algorithms.
- Maintained 500+ GitHub Contributions across 6+ repositories, showcasing consistent development and collaboration.
- Member, SAIC (Student Alumni Interaction Cell) NIT Durgapur – Coordinated logistics for Alumination 2025, managing registration for 100+ attendees.