

# Yash Kumar Singh

Portfolio: [yash-dev-portfolio-website.vercel.app](#)

GitHub: [github.com/coder40425](#)

Email: [yashsingh1610@gmail.com](mailto:yashsingh1610@gmail.com)

Mobile: +91 95478 24257

LinkedIn: [linkedin.com/in/yash-kumar-singh-dev](#)

## EDUCATION

- National Institute of Technology Durgapur** 2024 – Present  
B.Tech in Chemical Engineering  
CGPA: 7.5/10  
*Relevant Coursework:* Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems

## TECHNICAL SKILLS

- Languages:** JavaScript (ES6+), TypeScript, C, C++, Python
- Frontend:** React.js, Next.js, Tailwind CSS, Redux
- Backend:** Node.js, Express.js, REST APIs, WebSockets, Socket.io
- Databases & Authentication:** MongoDB, MySQL, Redis, JWT, NextAuth.js, Clerk
- Core CS:** Data Structures & Algorithms, OOP, DBMS, Operating Systems
- DevOps & Tools:** Docker, Git, GitHub, GitHub Actions (CI/CD), Linux, Postman, Vercel, Render, Figma

## EXPERIENCE

- Software Developer Intern (Backend)**, Maity Innovations Pvt. Ltd. (On-site, Durgapur, India) Jan 2026  
*Tech Stack:* Node.js, TypeScript, Express.js, MongoDB, MySQL, MongoDB Transactions
  - Collaborated with senior developers on production e-commerce backend in agile development cycles.
  - Engineered cart and coupon engine handling 10+ validation rules and inventory consistency checks.
  - Implemented MongoDB transactions to ensure atomic coupon redemption, eliminating duplicate usage.
  - Developed and tested 20+ RESTful APIs and resolved critical auth bugs reducing 500 errors by ~ 40%.
- Full Stack Developer Intern**, Techxica Technology Pvt. Ltd. (Remote) Nov 2025 – Jan 2026  
*Tech Stack:* React.js, TypeScript, Node.js, MongoDB, Tailwind CSS
  - Built product management system managing 40+ products with admin dashboard and Razorpay integration.
  - Redesigned company website improving responsiveness and reducing average page load time by ~ 25%.
  - Resolved payment gateway issues ensuring reliable transactions and 100% successful webhook verification.
  - Optimized database queries and API responses, improving overall application performance by ~ 20%.

## PROJECTS

- BudgetTracker AI (Full-Stack Application)** (Live Demo | GitHub Repo)  
*Tech Stack:* Next.js 14 (TypeScript), MongoDB, Clerk Auth, OpenRouter API
  - Built LLM-powered expense categorization across 6+ categories, reducing manual entry by ~ 90%.
  - Implemented secure authentication, protected APIs, and type-safe backend endpoints using Clerk.
  - Optimized MongoDB access and delivered Chart.js analytics (bar/pie) for personalized spending insights.
- Expense Splitter App (Real-Time System)** (Live Demo | GitHub Repo)  
*Tech Stack:* React.js, Node.js, Express.js, MongoDB, Socket.io, JWT
  - Developed real-time expense settlement platform supporting 30+ concurrent groups with < 100ms latency.
  - Built secure REST APIs with JWT authentication and implemented flexible expense-splitting logic.
  - Optimized client-side routing with lazy loading, reducing initial bundle size and load time by ~ 30%.
- LRU Cache Implementation (DSA + Low-Level Design)** (GitHub Repo)  
*Tech Stack:* C++, STL, Hash Maps, Doubly Linked Lists
  - Implemented LRU cache with **O(1)** get and put operations using custom DLL.
  - Designed eviction policy simulating cache behavior in databases and operating systems.
  - Applied OOP principles with encapsulation and efficient memory management.

## ACHIEVEMENTS

- Competitive Programming:** Solved **200+ LeetCode problems** across data structures and algorithms; achieved **1300+ rating on CodeChef**.
- GitHub Activity:** Maintained **500+ GitHub contributions** with consistent coding streak, including a comprehensive 30-day C++ OOP/STL practice series.
- Hackathon Recognition:** Advanced to college finals at **Smart India Hackathon 2025** by developing disaster response drone **dashboard** with real-time thermal imaging and GPS integration.