

Yash Kumar Singh

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

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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, Unordered Map, Doubly Linked List
 - Implemented LRU cache with **O(1)** average get and put operations **using STL**.
 - Used **unordered_map** and **doubly linked list** for constant-time key access.
 - Designed eviction logic simulating **cache** behavior in real **memory systems**.

ACHIEVEMENTS

- Solved **200+ LeetCode problems** across core data structures and algorithms.
- Earned **100+ Days LeetCode Badge** through consistent daily problem solving.
- Achieved **1300+ CodeChef rating** through regular competitive programming practice.
- Maintained **600+ GitHub commits** across projects with consistent activity.
- Participated in **Smart India Hackathon 2025**, building disaster response drone dashboard with GPS.