

Yash Kumar Singh

[github](#) | [linkedin](#) | [leetcode](#) | [portfolio](#) | yashsingh1610@gmail.com | [+91-9547824257](#)

WORK EXPERIENCE

MezZingo

Backend Developer Intern

Jan 2026 - Present

Remote (Bengaluru, India)

- Designed and deployed scalable **Cloud Run backend services** using **Python and Flask** for production-grade systems.
- Built robust RESTful APIs for subscription workflows and **automated background job processing pipelines**.
- Optimized complex **Firebase queries and batch operations**, reducing overall API latency by ~ 30%.
- Improved backend reliability with structured **error handling** and logging mechanisms, reducing failures by ~ 25%.

Maity Innovations Pvt. Ltd.

Software Developer Intern (Backend)

Jan 2026

Onsite (Durgapur, India)

- Collaborated closely with senior developers on production-level **e-commerce** backend systems in agile development cycles.
- Engineered scalable cart and coupon **engine handling 10+ validation rules** and strict inventory consistency checks.
- Implemented secure **MongoDB transactions** to ensure atomic coupon redemption, eliminating duplicate usage issues.
- Developed and thoroughly tested 20+ **RESTful APIs** and resolved critical auth bugs, **reducing 500 errors by ~ 40%**.

Techxica Technology Pvt. Ltd.

Full Stack Developer Intern

Nov 2025 - Jan 2026

Remote (Maharashtra, India)

- Built scalable product management system managing **40+ products** with admin dashboard and **Razorpay integration**.
- Redesigned company website architecture improving responsiveness and **reducing average page load time by ~ 25%**.
- Resolved critical **payment gateway** issues ensuring **reliable transactions** and 100% successful **webhook verification**.
- Optimized complex **database queries** and **API responses**, improving overall application performance by ~ 20%.

PROJECTS

BudgetTracker AI

| *Next.js 14 (TypeScript), MongoDB, Clerk Auth, OpenRouter API* – [GitHub](#) | [Live Demo](#) Oct 2025

- 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 **analytics dashboards** (bar/pie) for personalized spending insights.

ExpenseSplitter App

| *React.js, Node.js, TypeScript, Express.js, MongoDB, Socket.io* – [GitHub](#) | [Live Demo](#) Sep 2025

- 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

| *C++, STL, Unordered Map, Doubly Linked List* – [GitHub](#) Jun 2025

- Implemented an **LRU (Least Recently Used) cache** supporting **O(1)** average get and put operations.
- Combined **unordered_map** and **doubly linked list** to achieve constant-time key lookup and efficient node updates.
- Designed cache eviction logic simulating real-world **memory management systems** and replacement policies.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript (ES6+), TypeScript, C, C++, Python
- **Web Technologies:** React.js, Next.js, Tailwind CSS, Node.js, Express.js, Flask, WebSockets, Socket.io
- **Databases & Authentication:** MongoDB, MySQL, Redis, Firestore, JWT, NextAuth.js, Clerk
- **DevOps & Cloud:** Docker, GitHub Actions (CI/CD), Linux, Bash, Google Cloud Platform (GCP), Vercel
- **Tools & Version Control:** Git, GitHub, Postman, Hoppscotch

ACHIEVEMENTS

Problem Solving

Solved **200+ LeetCode problems** across arrays, strings, linked lists, trees, graphs, recursion, and dynamic programming.

LeetCode Consistency

Earned **100+ Days LeetCode Badge** through consistent daily problem solving

Competitive Programming

Achieved **1300+ CodeChef rating** through regular competitive programming practice

Smart India Hackathon

Participated in **Smart India Hackathon 2025**, building disaster response drone dashboard with GPS integration

EDUCATION

National Institute of Technology Durgapur, India

Bachelors of Technology in Chemical Engineering

Aug 2024 - May 2028

CGPA: 7.5/10.0

RELEVANT COURSEWORK

Core CS: Computer Programming, Data Structures and Algorithms, Object Oriented Programming, Database Management Systems, Operating Systems

POSITION OF RESPONSIBILITY

Student Alumni Interaction Cell (SAI Cell), NIT Durgapur

Member

Feb 2025 - May 2025

- Organised **Alumination 2025** and coordinated alumni networking sessions, cross-team planning, and on-site logistics.
- Guided **500+ students** during alumni sessions, ensuring structured coordination and effective overall engagement.