

# Yash Kumar Singh

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## 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 systems.
- Built RESTful APIs for subscription workflows and **automated** background job processing.
- Optimized **Firestore queries and batch operations**, reducing API latency by  $\sim 30\%$ .
- Improved backend reliability with structured **error handling** and logging, reducing failures by  $\sim 25\%$ .

### Maity Innovations Pvt. Ltd.

Software Developer Intern (Backend)

Jan 2026  
Onsite (Durgapur, India)

- 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  $\sim 40\%$ .

### Technica Technology Pvt. Ltd.

Full Stack Developer Intern

Nov 2025 - Jan 2026  
Remote (Maharashtra, India)

- 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  $\sim 25\%$ .
- Resolved **payment gateway** issues ensuring **reliable transactions** and 100% successful **webhook** verification.
- Optimized **database queries** and **API responses**, improving overall application performance by  $\sim 20\%$ .

## PROJECTS

### BudgetTracker AI (Full-Stack Application)

Next.js 14 (TypeScript), MongoDB, Clerk Auth, OpenRouter API

Oct 2025  
[GitHub Repo](#)

- Built **LLM-powered** expense categorization across 6+ categories, **reducing manual entry** by  $\sim 90\%$ .
- 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.

### Expense Splitter App (Real-Time System)

React.js, Node.js, Express.js, MongoDB, Socket.io, JWT

Aug 2025 - Sep 2025  
[GitHub Repo](#)

- Developed **real-time expense settlement platform** supporting 30+ concurrent groups with  $< 100\text{ms}$  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  $\sim 30\%$ .

## 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, Firebase Auth, JWT, NextAuth.js, Clerk
- DevOps & Cloud:** Docker, Git, GitHub Actions (CI/CD), Linux, Google Cloud Platform (GCP), Vercel

## 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  
GPA: 7.5/10.0

## RELEVANT COURSEWORK

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

## POSITION OF RESPONSIBILITY

### Member, Student Alumni Interaction Cell (SAI Cell), NIT Durgapur:

Organised Alumination 2025 and coordinated alumni networking sessions, cross-team event planning, and on-site logistics.

Feb 2025 - May 2025