

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 **Firebase queries and batch operations**, reducing API latency by ~ 30%.
- Improved backend reliability with structured **error handling** and logging, reducing failures by ~ 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 ~ 40%.

Techxica 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 ~ 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)

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 ~ 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 < 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%.

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