

Yash Mittal

Full-Stack Developer · Backend Engineering · Real-Time Systems

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SUMMARY

Full-Stack Developer with production experience across the **MERN stack**, Next.js, Redis, WebSockets, and Docker. Delivered 3 live applications — a SaaS recruitment platform, a real-time multiplayer system, and a geospatial logistics tool. Strong in **RESTful API** design, **JWT/OAuth 2.0**, **CI/CD**, and Agile practices.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3

Frontend: React.js, Next.js (SSR/SSG), Tailwind CSS, WebRTC, Responsive Design

Backend: Node.js, Express.js, RESTful APIs, Socket.IO, JWT, OAuth 2.0, bcrypt, RBAC

Databases: MongoDB (Aggregation Pipelines), MySQL, Redis (Pub/Sub, Caching, Queues)

DevOps: Docker, Nginx, Git, CI/CD, Vercel, Render, MongoDB Atlas, Load Balancing

EXPERIENCE

Freelance Full-Stack Developer — EPIC Business Resources

Contract · Remote · 2025–Present · clienteric.vercel.app · [GitHub](#)

- Built and shipped a **production SaaS recruitment platform** (employers, recruiters, candidates) as sole developer — full ownership of architecture, APIs, and deployment.
- Architected **JWT & bcrypt RBAC**, 25+ REST endpoints, CI/CD on Vercel with **99%+ uptime**; **Next.js SSR** with MongoDB aggregation pipelines for **sub-500 ms** page loads.

PROJECTS

Multiplayer Chess Platform

React.js · Node.js · MongoDB · Redis · Socket.IO · [Live Demo](#) · [GitHub](#)

- Real-time multiplayer platform supporting **50+ concurrent sessions** with **sub-100 ms** move sync; Redis Pub/Sub matchmaking achieving **<2 s** pairing time.
- Server-side FIDE rule validation eliminated 100% of illegal moves; decoupled Vercel + Render architecture enables independent horizontal scaling per tier.

Dynamic Shuttle Management System

React.js · Node.js · MongoDB · Socket.IO · Leaflet.js · OSRM · [Live Demo](#) · [GitHub](#)

- Real-time campus transport system — **greedy minimum-detour algorithm** assigns passengers to optimal shuttles; OSRM live ETAs with **<60 ms** Leaflet.js map updates.
- 5 concurrent Socket.IO streams (GPS, routes, queues, boarding, drop-offs) unified into a single real-time operational dashboard.

EDUCATION

B.Tech, Computer Science & Engineering

GTB 4th Centenary Engineering College, New Delhi · Expected June 2026 · CGPA: 7.5 / 10

CERTIFICATIONS

- **Master DSA & MERN Stack** — Coding Blocks (2024) · **Certificate of Excellence** — Sheryians Coding School, Cohort 3.0 (2026) · Active [LeetCode](#) practitioner.