

UJJWAL KATIYAR

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PROFESSIONAL SUMMARY

Full Stack Engineer specializing in real-time web applications, scalable systems and high-performance backend development, with hands on experience across end-to-end product development. Currently pursuing a B.Tech in Computer Science with a specialization in Artificial Intelligence, combining academic grounding in data structures, algorithms, and systems design with shipped, real-world engineering work.

EDUCATION

IIMT College Of Engineering

Bachelor of Technology in Computer Science & Engineering, Specialization in Artificial Intelligence

OCT. 2023 – FEB 2027

Greater Noida, India

Relevant Coursework – Data Structures & Algorithms, Operating System, DBMS, Computer Networks & Object-Oriented Programming

TECHNICAL SKILLS

Languages – Typescript, JavaScript, Python, C/C++

Frontend – React.js, Next.js, Tailwind CSS, Redux Toolkit

Backend – Node.js, Express.js, REST APIs, JWT, OAuth, Mongoose ODM, Prisma ORM, Redis, Kafka, WebSockets

Databases – MongoDB & PostgreSQL

Tools – Docker, Git/Github, CI/CD, Postman

Concepts – Distributed Systems, Microservices, System Design, Real-Time Architecture, Event-Driven Architecture

EXPERIENCE

Startup4Nation (Community)

OCT. 2024 – FEB 2026

Full Stack Developer

- Built and deployed a QR-based participant onboarding platform that streamlined event check-ins for **2,000+ attendees**, reducing manual verification time by **80%** and improving the registration experience.
- Developed a JWT-secured full-stack evaluation platform, enabling judges to submit scores in real-time, improving evaluation transparency, and significantly reducing result publication delays.
- Designed, developed, and deployed responsive event websites for Mind Installers Hackathon **MIH 3.0**, and **MIH 4.0**, delivering a seamless user experience across desktop and mobile while increasing participant engagement and simplifying registrations.

PROJECTS

Exchange-x | *Typescript, Node.js, Next.js, Redis, Kafka, MongoDB, WebSockets*

[Live Demo](#) | [Github](#)

- Designed and developed a cryptocurrency exchange platform enabling users to place real-time buy and sell orders with live prices feeds and instant wallet updates, built to handle high throughput concurrent orders.
- Implemented a price-priority Order Matching Engine and order book, by integrating Kafka for high-throughput order processing, Redis for caching, and WebSockets for real-time price/order updates.
- Achieved 100% success on 150k+ orders at 2,606 req/sec (1.06ms min latency), by load testing with Grafana k6 across 1,000 concurrent users.

CRM-X | *Typescript, Node.js, Next.js, PostgreSQL, OpenAI, Tailwind CSS*

[Live Demo](#) | [Github](#)

- Built an AI-powered CRM tool that enables businesses to manage leads end-to-end reducing manual lead tracking and managing emails directly from the dashboard.
- Integrated an AI email generator tool using OpenAI OSS 120B model allowing user to generate personalized client emails directly within the CRM dashboard.
- Improved application scalability and maintainability by architecting the project as a **Turborepo** with shared UI components, TypeScript config, and ESLint packages, enabling consistent development across the frontend and backend.

EXTRACURRICULAR ACTIVITIES

Fetch-a-thon 2.0

National Institute of Technology, Delhi

- Organized a 12-hour uAgent-empowered hackathon at NIT Delhi in collaboration with Fetch.ai and received recognition from the Director of NIT Delhi for successfully managing the event.

Mind Installers Hackathon 3.0, 4.0

IIMT College Of Engineering, Greater Noida

- Led technical operations for a 30-hour hackathon attended by 500+ participants, managing registration systems, evaluation infrastructure, QR-based check-ins, and live event support.