

Amit Kumar Gupta

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SUMMARY

Final-year B.Tech student at NIT Calicut with hands-on experience in full-stack engineering using TypeScript, React, Next.js, Node.js, PostgreSQL, Redis, and Kafka. Passionate about building scalable platforms and leveraging AI for productivity.

EDUCATION

National Institute of Technology Calicut
B.Tech in Production Engineering **CGPA: 7.23**

Kozhikode, Kerala, India
December 2021 – May 2025

EXPERIENCE

MERN Stack Intern at Care Setu

March 2025 – May 2025

Javascript, Next.js, Redux, TailwindCSS

- Led the development of a responsive web app using **Next.js**, boosting patient-clinic connectivity; reduced page load times by 40% and improved TTI by 35%.
- Implemented key features—**appointment scheduling**, **real-time chat**, and dashboards using Next.js SSR & SSG with Redux for state management, enhancing UX and lifting performance by 50%.
- Contributed to roadmap and design discussions; collaborated cross-functionally to ship features impacting 5K+ users.

PROJECTS

Real-Time Exchange Platform [GitHub](#)

January - February 2025

Typescript, Express.js, Next.js, WebSocket, Redis, PostgreSQL/TimescaleDB, Prisma

- Built a high-performance crypto exchange** with Next.js, Express, Redis, and PostgreSQL, handling 10K+ orders/sec and 500K+ daily trades with ultra-low latency.
- Reduced execution latency to sub-50ms** by integrating **Redis Pub/Sub** and **WebSockets**, boosting market data throughput by 80%.
- Designed an event-driven platform** with Redis for trade matching and TimescaleDB for analytics, paired with a Next.js dashboard improving engagement by 35% and uptime to 99.9%.

Automation Platform - TriggerHub [GitHub](#)

November - December 2024

Typescript, Node.js, Next.js, PostgreSQL, Prisma, Kafka, Tailwind CSS, Zod

- Built an **automation platform** with Next.js, Express, Prisma, and PostgreSQL to handle high-volume webhooks. Used a **React Flow UI** for parallel tasks, cutting setup time and boosting adoption.
- Designed a **Kafka-based pipeline** with **99.99% message reliability**, eliminating duplicate Solana transactions and scaling to **100K+ events/day**.
- Secured user auth with **email verification**, **JWTs**, and **password resets**, reducing unauthorized access by **95%** and fraud by **70%**.

TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript, TypeScript, Golang, Python, SQL

Frontend Development: React.js, Next.js (SSR, SSG, SEO), Redux, TailwindCSS, HTML, CSS

Backend Development: Node.js, Express.js, WebRTC, RESTful APIs and WebSockets, Kafka, Postman

Database Technologies: MongoDB, PostgreSQL, Prisma, Redis (Pub/Sub, Queues), TimescaleDB

Cloud & DevOps: Git and GitHub, AWS, Docker, Kubernetes, Linux, Unix, Shell scripting

Other Tools & Concepts: Object-Oriented Programming (OOP), RESTful APIs, Database Management Systems (DBMS), Operating System, Computer Networking, Monorepo, gRPC, CI/CD Pipeline, Jest, Vitest, Cypress

CERTIFICATIONS

0-100 Fullstack Web Development Course - Cohort-2.0 100xDevs

April 2024 - January 2025

Contentstack for Developer + Launch and the Hackathon

September - October 2024

Summer School Web Development and Blockchain 2024-2025 - WebOps and Blockchain Club IITM

June - July 2024

EXTRA-CURRICULAR ACTIVITIES

South Zone Inter-University Volleyball Men's Tournament

December 2022, 2023

All India NIT Volleyball Tournament (Winner)

February 2025 & March 2024

IMPORTANT LINKS

GitHub: github.com/Amitaarav

LeetCode: leetcode.com/amit_gupta_512