Amit Kumar Gupta

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SUMMARY

Full Stack Developer with hands-on experience building scalable, fault-tolerant systems using Node.js, PostgreSQL, Kafka, and Redis. Solana development, PDAs and bump derivation, instruction decoding, transaction parsing.

EDUCATION

National Institute of Technology Calicut   *Kozhikode, Kerala, India*
B.Tech in Production Engineering **CGPA: 7.23**   *Dec 2021 – May 2025*

EXPERIENCE

MERN Stack Intern @ Care Setu   *Mar 2025 – May 2025*
Next.js, TypeScript, Redux, TailwindCSS

- Built a scalable patient-clinic system with optimized routing and SSR in **Next.js**, reducing time-to-interactive by **35%**.
- Developed real-time chat and scheduling for **5K+ monthly users**, improving engagement by **40%**.
- Enforced clean code practices with reusable components and modular structure, increasing developer velocity by **30%**.

PROJECTS

MoneyTxn - Fullstack Fintech Payment System GitHub   *Apr 2025 – Jun 2025*
TypeScript, Next.js, Node.js, PostgreSQL, Tailwind CSS, Zod, NextAuth.js

- Built a secure payment platform for P2P and merchant transfers using atomic **Prisma transactions** and raw SQL locking to avoid double-spending.
- Implemented **NextAuth.js + JWT** for custom credential-based authentication with session management and role control.
- Designed webhook-driven on-ramp system with token-based verification, handling **10K+ simulated bank events** reliably.

Automation Platform - TriggerHub GitHub   *Nov 2024 – Jan 2025*
TypeScript, Next.js, Node.js, PostgreSQL, Kafka, Prisma, Zod

- Created a **workflow automation platform** with React Flow UI and parallel execution pipelines supporting conditional and concurrent task flows.
- Built a resilient Kafka-based event system ensuring **99.99% delivery reliability** at **100K+ events/day** scale.
- Secured APIs using **Zod validation**, JWT auth, and email verification—cutting unauthorized access by 70%.

Real-Time Exchange Platform GitHub   *Jan 2025 - Present*
TypeScript, Next.js, Express.js, WebSocket, Redis, PostgreSQL/TimescaleDB

- Developed a high-frequency crypto exchange capable of **10K+ orders/sec** using Redis Pub/Sub and WebSockets for ultra-low latency.
- Used **TimescaleDB** to power real-time + historical analytics, improving dashboard insights and system observability.
- Delivered a performant Next.js interface with 99.9% uptime and smooth trade tracking for 500K+ daily transactions.

TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript, TypeScript, Golang, Python, SQL
Frontend Development: React.js, Next.js (SSR, SSG, SEO), Redux, ContextAPI, Recoil, 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
Other Tools & Concepts: Object-Oriented Programming (OOP),DBMS, Operating System, Computer Networking
Blockchain & Solana: Raw Solana Programs, Token Program, Web2-style dApp Integration

CERTIFICATIONS

0-100 Fullstack Web Development Course - Cohort-2.0 100xDevs	*Apr 2024 - Jan 2025*
Contentstack for Developer + Launch and the Hackathon	*Sep - Oct 2024*
Summer School Web Development and Blockchain 2024-2025 - WebOps and Blockchain Club IITM	*Jun - Jul 2024*

EXTRA-CURRICULAR ACTIVITIES

South Zone Inter-University Volleyball Men's Tournament	*Dec 2022, 2023*
All India NIT Volleyball Tournament (Winner)	*Feb 2025 & Mar 2024*

IMPORTANT LINKS

GitHub: github.com/Amitaarav   **LeetCode:** leetcode.com/amit_gupta_512