

Harsh Gupta

[GitHub](#) | [LinkedIn](#) | [LeetCode](#) | harshachieve300@gmail.com | +91 8267916285

Professional Summary

Full-Stack Developer experienced in scalable web applications, real-time systems, microservices, and cloud infrastructure. Strong in system design (HLD/LLD) and distributed systems. **AWS Certified Cloud Practitioner** focused on building efficient, production-grade applications.

Experience

CodeHurdle — Next.js Developer Intern

Dec 2025 – Apr 2026

- Engineered scalable UI components for **codehurdle.com** using **Next.js** & **TypeScript**, improving page-load responsiveness by **~30%**; managed state with **Zustand** and **React Query**, cutting redundant API calls by **~40%**.
- Delivered a **real-time Virtual Coding Contest** feature (solo & team) via **WebSockets**, supporting **100+ concurrent participants** with sub-100 ms latency; built responsive UI with **Tailwind CSS** boosting retention by **~20%**.

Projects

Nexcart – Production Microservices E-Commerce | *Node.js, TypeScript, Next.js, Redis, RabbitMQ, Docker, AWS*

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- Architected a **7-service microservices platform** with a custom **API Gateway** (JWT auth, rate limiting, routing); Redis cache-aside on product catalog reduced DB load by **~60%** via TTL-based invalidation.
- Built an **event-driven order pipeline** using **RabbitMQ** topic exchanges (order→payment→notification), boosting throughput by **~45%**; integrated **Stripe** with **Opossum circuit breaker**, cutting payment failures by **~35%**.
- Deployed on **AWS** (EC2, RDS, ElastiCache, Amazon MQ, ALB, S3) with **GitHub Actions CI/CD** and multi-stage Docker builds, reducing release cycle time by **~50%**.

SolveTracker – AI-Powered DSA Learning Platform | *React, Node.js, MongoDB, Gemini 2.5 Flash, Zustand, Recharts*

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- Built a full-stack platform with **LeetCode auto-sync** via parallel GraphQL queries and **Gemini 2.5 Flash** with a 3-model fallback chain + 8h signature-keyed cache, reducing AI API calls by **~70%**.
- Engineered a **Teacher Analytics Dashboard** with topic heatmaps, Gallant/Average/Gradual student categorisation, and 5 Recharts visualisations; **LeetCode-verified** problem completion ensured 100% data integrity.

Echo Chat – Horizontally Scalable Real-Time Chat | *Node.js, React, Redis Pub/Sub, WebSocket, Docker, Nginx*

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- Designed a **Redis Pub/Sub fan-out** architecture enabling N-replica horizontal scaling behind Nginx with no sticky sessions; **Redis Streams** (500-msg cap) persisted history across server restarts.
- Implemented token-bucket **rate limiting** (60 msg/min), exponential back-off auto-reconnect, and ping/pong heartbeat, achieving **~99%** message delivery reliability under network churn.

Technical Skills

- Languages:** JavaScript, TypeScript, Golang, C, C++
- Backend:** Node.js, Express.js, WebSocket, Socket.io, Redis, BullMQ, RabbitMQ, Kafka, Prisma ORM, JWT, Google OAuth, NextAuth
- Frontend:** React, Next.js, Zustand, React Query, Recoil, Tailwind CSS, Framer Motion, HTML5, CSS3
- Cloud & DevOps:** AWS (EC2, S3, RDS, CloudFront, CloudWatch, ElastiCache), Docker, CI/CD, Nginx, Git, GitHub, Postman
- Databases & AI:** MongoDB, PostgreSQL, Redis, Vector DB, RAG, LangChain, Agentic AI, Generative AI
- System Design:** Low-Level Design (LLD), High-Level Design (HLD), Distributed Systems, Microservices

Education

B.Tech – CSE, KIET Group of Institutions, Ghaziabad GPA: 8.22/10

2024 – 2028

Leadership & Achievements

- 3rd Runner-Up, AI Arena Hackathon** – Competed among participants from colleges across India; delivered a complete AI-powered solution under time constraints.
- Top 16 Nationwide, K3PC ICPC-Level Contest** – Ranked in the top 16 teams nationally in an ICPC-style competitive programming contest.
- 600+ DSA & CP Problems** solved across LeetCode, Codeforces, and CodeChef.
- Project Lead, CPBYTE** – Conducted coding sessions, reviewed peer work, and mentored **50+ developers**.

Certifications

- AWS Certified Cloud Practitioner** – Core AWS services, cloud fundamentals, and security best practices.