

Saurav Gupta

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EDUCATION

Guru Gobind Singh Indraprastha University

Delhi, India

Bachelor of Technology in Computer Science and Engineering, CGPA: 9.1/10 (Gold Medalist)

July 2022 – May 2026

EXPERIENCE

Software Development Engineer (SDE) Intern

January 2026 – Present

CoinSwitch (PeepalCo)

Bengaluru, India

- Engineered a fault-tolerant asynchronous withdrawal flow in a Go payment service handling **10,000+ withdrawals daily**, with crash recovery and block-then-settle ledger semantics that keep fund movement idempotent and prevent double debits.
- Cut manual intervention during banking-vendor outages by **80%** with a heartbeat system that scores partner health from Redis rolling failure rates and reroutes transactions away from degraded vendors.
- Designed a declarative JSON mapper framework normalizing bank-specific API requests, responses, and transaction statuses, enabling **zero-code integration** of new banking partners through configuration alone.
- Served as the primary on-call engineer, resolving **15+ customer-facing incidents weekly** through distributed-service troubleshooting and root-cause analysis, while authoring runbooks to reduce recurring incidents.

Software Development Engineer (SDE) Intern

June 2025 – December 2025

Heizen

Remote

- Shipped **3 enterprise applications** from requirements to production, instrumenting API latency, error rates, and service health through New Relic and Grafana dashboards.
- Automated regression suites for critical workflows, eliminating **40%** of manual test effort and hardening release confidence across production deployments.

Full Stack Web Developer Intern

March 2024 – October 2024

Soni Consultancy

Remote

- Built an invoice automation pipeline clearing **3,000+ records** through asynchronous jobs, removing repetitive data entry from the billing workflow.
- Accelerated response times by **40%** with Redis caching and tuned database indexes on the heaviest query paths, alongside JWT-secured sessions over Socket.IO.

PROJECTS

VaultDrive | Go, REST APIs, Goroutines, Worker Pools, Cobra CLI, fsnotify

[GitHub](#)

- Developed a distributed client-server file synchronization system in Go with real-time change detection, bidirectional sync, and conflict resolution, driven from a Cobra CLI over REST APIs.
- Scaled batch throughput by moving files concurrently through goroutines, channels, and a bounded worker pool that holds memory flat as batch size grows.

EchoDesk | Node.js, Express, LangGraph, Groq LLM, RAG, Pinecone, MongoDB, Telegram Bot API

[GitHub](#)

- Cut manual support effort by **60%** by architecting a **LangGraph multi-agent** system that auto-routes queries across 4 specialized agents with **LLM tool-calling** over MongoDB for deterministic order and ticket resolution.
- Boosted FAQ answer accuracy by implementing **RAG** with **Pinecone vector embeddings**, cutting duplicate tickets via scoped detection and reducing human handoff time with AI-generated summaries.

TECHNICAL SKILLS

Languages: Go, C++, Python, JavaScript, TypeScript, SQL

Frontend: React, Next.js, Tailwind CSS, TanStack Query, Zustand

Backend & Distributed Systems: Microservices, REST APIs, GraphQL, WebSockets, Gin, Node.js, Express.js

Databases: PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Elasticsearch

Tools & Technologies: AWS (EC2, S3, Lambda), Docker, ArgoCD, CI/CD, Git, Grafana, New Relic

CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks

ACHIEVEMENTS

- Solved **550+ algorithm problems** on LeetCode with a peak contest rating of **1613**.
- Served as **Web Lead** at Google Developer Groups, USICT, running 20+ technical events and mentoring 200+ students on web development and coding practices.