

UTTKARSH RUPAREL

+91-9885000237 · rupareluttkarsh2309@gmail.com
[Linkedin](#) · [GitHub](#) · [Portfolio](#) · [LeetCode](#) · [CodeForces](#)

Skills

Cloud, DevOps & Infrastructure: Kubernetes, Helm, Docker, AWS (SQS, S3, RDS, Lambda, VPC), Terraform, CI/CD (GitHub Actions), Observability (Prometheus, Grafana, Datadog), NGINX, Linux
Backend & Distributed Systems: Node.js (Express, Fastify), FastAPI, PostgreSQL, MongoDB, Redis, Kafka (event streaming), BullMQ
Testing: k6 (load testing), Jest (unit/integration), Playwright (E2E)
Languages: Java, TypeScript, JavaScript, Go, Python, SQL
Frontend: React, Next.js, Tailwind CSS
Foundations: System Design, Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Database Management Systems, Distributed Systems

Work Experience

- Full Stack Developer — ISKCON, Pune** *July, 2025 - November, 2025*
- Designed and deployed an [alumni engagement and donation platform](#) using **React** and **Node.js**, integrating **Cashfree payment gateway** with **secure webhook** verification and **idempotent transaction handling**.
 - Reduced API latency by ~60% (400 ms → 150 ms) by optimizing PostgreSQL query execution and introducing targeted indexing strategies.

Projects

[BitLink](#) — Distributed URL Redirection & Analytics Platform

AWS, Node.js, Express, Redis, NGINX, Docker, Terraform, Prometheus, Grafana

- Designed and operated a **stateless** URL redirection platform supporting short links, QR codes, and real-time analytics, optimized for the **redirect hot path** behind an **NGINX reverse proxy** on **AWS** using stateless, **horizontally scalable services**.
- Sustained ~2–4K RPS under burst traffic with **p95 redirect latency below 150 ms**, achieved through **Redis hot-path caching**, **request rate limiting**, and **horizontally scalable EC2 services**.
- Reduced **redirect-path latency** by ~55–65% by **decoupling** write-heavy analytics from **synchronous requests** using **Redis-backed background jobs**, with **Terraform-managed infrastructure**, **Prometheus/Grafana** metrics and tracing, and automated **Dockerized CI/CD**.

[Anchor](#) — Automated Student Productivity Platform

Next.js, Supabase, Redis, GitHub Actions, Docker

- Engineered modular **backend workflows** for authentication and scheduling, eliminating redundant queries and **simplifying request paths**.
- Improved API latency by ~80% (1500 ms → 250 ms) using **Redis caching** and a **Token Bucket rate limiter** (~50 req/bucket).
- Implemented **CI/CD pipelines** using **GitHub Actions**, enabling automated builds, tests, and deployments and reducing manual deployment effort to near zero.

Education

B.Tech in Computer Science & Engineering |

Symbiosis Institute of Technology, Pune

Higher Secondary Education |

Excellencia Junior College, Secunderabad

CGPA: 7.53

(2023 - 2027)

Percentage: 85.5%

(2021 - 2023)

Leadership & Achievements

ACE 2.0 Finalist (September 2025) — Selected from over 400 teams for designing a smart-governance platform that unified key public services into a single system.

Competitive Programming Co-Head, GDSC SIT Pune (July 2025 – Present) — Organized coding contests, workshops, and mentorship sessions for 100+ students; supported problem-solving training and strengthened the community's CP engagement.