

UTTKARSH RUPAREL

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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%** ($400\text{ ms} \rightarrow 150\text{ ms}$) 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%** ($1500\text{ ms} \rightarrow 250\text{ ms}$) 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 |

CGPA: 7.53

Symbiosis Institute of Technology, Pune

(2023 - 2027)

Higher Secondary Education |

Percentage: 85.5%

Excellencia Junior College, Secunderabad

(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.