

# UTTKARSH RUPAREL

+91-9885000237 · [rupareluttkarsh2309@gmail.com](mailto:rupareluttkarsh2309@gmail.com)  
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## Skills

**Languages:** Java, JavaScript, TypeScript, C/C++, Python, SQL, Bash

**Backend & Databases:** Node.js, Express.js, PostgreSQL, MongoDB, Redis, Prisma, Supabase, REST APIs, GraphQL, NGINX

**Frontend:** React.js, Next.js, Tailwind CSS

**DevOps & Cloud:** Docker, Linux, Git/GitHub, GitHub Actions, AWS (EC2, RDS, S3), Vercel, Render

**Architecture & Fundamentals:** System Design, Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Database Management Systems, Computer Organization & Architecture, Software Development Methodologies (Agile, Scrum, SDLC)

**Core Competencies:** Problem Solving, Analytical Thinking, Attention to Detail, Adaptability, Teamwork, Communication

## Projects

### [Anchor](#) — Automated Student Productivity Platform

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

- Built modular backend workflows for auth, assignments, attendance and schedules using TypeScript; eliminated redundant queries to streamline request paths.
- Implemented Redis-based caching and a Token Bucket rate limiter (bucket size ~50 requests), cutting workflow latency from ~1500 ms → ~250 ms (80% faster) and preventing backend overload during burst traffic; set up GitHub Actions CI/CD for automated deployments.

### [BitLink](#) — URL Shortener & QR Code Generator

*ReactJS, Node.js, Express.js, MongoDB*

- Built short-link and dynamic QR generation with a real-time analytics dashboard optimized for high-frequency usage; designed REST APIs for reliable tracking and link performance insights.
- Load-tested with **10K+ requests**, consistently maintaining **120–180 ms** latency during burst traffic to ensure stable, low-latency performance under load.

### [GradCircle](#) — Alumni Engagement & Donation Platform

*ReactJS, Node.js, Express.js, Supabase*

- Implemented JWT auth, RBAC, donation processing, and voicebot integration.
- Optimized Express + Supabase queries through indexing to reduce API response times from ~400 ms to ~150 ms (60% faster) during donation and alumni workflows.

## Education

### B.Tech in Computer Science & Engineering |

Symbiosis Institute of Technology, Pune

### Higher Secondary Education |

Excellencia Junior College, Secunderabad

### Secondary Education |

Pallavi Model School, Secunderabad

**CGPA: 7.425**

(2023 - 2027)

**Percentage: 85.5%**

(2021 - 2023)

**Percentage: 85.5%**

(2020 - 2021)

## 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 (Present)** — Organized coding contests, workshops, and mentorship sessions for 100+ students; supported problem-solving training and strengthened the community's CP engagement.

## Certifications

[AWS](#): Cloud Practitioner Essentials

[HackerRank](#): SQL (Basic & Intermediate), Problem Solving (Intermediate)