UTTKARSH RUPAREL

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Portfolio: https://uttkarsh-ruparel.vercel.app | GitHub: https://github.com/YHQZ1 | LeetCode: https://leetcode.com/u/yhqz

Skills

Languages: Java, JavaScript, TypeScript, C/C++, Python, SQL, Bash
Backend & Databases: Node.js, Express.js, REST APIs, PostgreSQL, MongoDB, Redis, Prisma, Supabase, 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, CI/CD (GitHub Actions)
- Built modular backend workflows for auth, assignments, attendance, and schedules using Supabase; 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	**CGPA: 7.425** (2023 - 2027)
Higher Secondary Education | Excellencia Junior College, Secunderabad	**Percentage: 85.5%** (2021 - 2023)
Secondary Education | Pallavi Model School, Secunderabad	**Percentage: 85.5%** (2020 - 2021)

Leadership & Achievements

ACE 2.0 Finalist — 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)