

Pratyoosh Prakash

Vadodara, Gujarat, India
+919155203801
[LinkedIn](#) | [Github](#) | [Portfolio](#)

PROJECTS

Fetis – Lite Redis | [GitHub](#)

- Developed an asynchronous, in-memory key-value store engineered in Rust. Leverages the Tokio runtime for non-blocking I/O to handle high-throughput concurrent TCP connections. Implements a core subset of the Redis protocol (SET, GET, DEL, PING).

Alofy – A text-based RPG | [GitHub](#) | [Demo](#)

- Developed a text-based RPG that integrates **Gemini AI** to generate unique, non-linear storylines for every session.
- Engineered a secure **Code Execution Engine** using **Piston** running within isolated **Docker containers**, preventing Remote Code Execution (RCE) during live DSA challenges.
- Built a level-progression system where boss battles are resolved through real-time coding algorithm solutions.

Blueprint – A fullstack template | [GitHub](#)

- Built a high-performance monorepo template using **Next.js** (Frontend) and **Nest.js** (Backend) with **TurboRepo** as the body with full **Docker** orchestration.
- Implemented robust security with **HTTP-only cookie-based authentication**, featuring automated **access/refresh token** rotation via **Axios interceptors** for "self-healing" sessions.
- Optimized performance with **Redis caching** and **Nginx** reverse proxying, pre-configured to handle CORS and load balancing out of the box.

Argus – Realtime Incident Report System | [GitHub](#) | [Live](#) | [Demo](#)

- Built a geospatial incident reporting platform using **React-Leaflet**, enabling users to view and report emergencies within a dynamic 2km radius.
- Designed a reputation algorithm that automatically shadow-bans **malicious users** based on report validity and community feedback.
- Implemented Role-Based Access Control (RBAC) for Admins, Responders, and Users to manage dispatch logic efficiently.

TECHNICAL SKILLS

- **Languages:** Rust, Python, TypeScript, C/C++
- **Framework:** Next.js, Express.js, Nest.js
- **Database:** PostgreSQL, Redis, Prisma ORM
- **Tools & Platforms:** Git, Nginx, Docker, Linux, REST APIs, Event-based APIs
- **Frontend:** React.js, Tailwind CSS

ACHIEVEMENTS

- **Finalist** – Odoo Hackathon 2025 (Selected for performance in rapid prototype development).
- **3rd Place** – Coderz Assemble Coding Competition, Parul University (2025).

CERTIFICATIONS

- **IT Specialist** – HTML and CSS | [Certificate](#)
- **IT Specialist** – JavaScript | [Certificate](#)
- **Python Programming** | [Certificate](#)

EDUCATION

Parul University | Vadodara, Gujarat
Bachelor of Technology in Computer Science Engineering | Expected Graduation: 2028