

Prakash Dass R

✉ rprakashdass@gmail.com ☎ +91 70100 47730 🌐 rprakashdass.in
in linkedin.com/in/rprakashdass 📄 github.com/rprakashdass </> leetcode.com/rprakashdass

Professional Summary

Final-year B.Tech student with practical exposure to **concurrent backend systems** using C++ and Go. Interested in low-level systems, API development, and cloud backend services. Strong problem-solving background with a focus on clean, maintainable code. Looking for an SDE role where backend fundamentals and system thinking are valued.

Technical Skills

- **Languages:** C++, Go, Python, JavaScript (basic)
- **Backend:** FastAPI (basic), REST APIs, PostgreSQL, Redis, Docker (basic)
- **CS Concepts:** Concurrency, Multithreading, Operating Systems, DSA, System Design
- **Tools:** Git, Linux, Postman, CI/CD basics

Projects

Group Links *React, Express.js, System Design* gl.rprakashdass.in — github.com/rprakashdass/group-links

- Designed and deployed a full-stack web app to organize and share categorized group links (e.g., WhatsApp/Telegram).
- Implemented RESTful APIs with Express.js and JWT-based authentication for protected routes.
- Used MongoDB for storing user data and group metadata; frontend built using React with basic component structure.
- Containerized with Docker and hosted via Nginx on a cloud VPS.

Multithreaded HTTP Server

C++, POSIX Threads

- Working on an HTTP/1.1 server supporting concurrent clients using thread pool and socket programming.
- Designed from scratch to practice OS-level concepts like synchronization, I/O multiplexing, and multithreaded request handling.

Concurrent Key-Value Store

Go

- Built a simple thread-safe in-memory key-value store using goroutines and mutexes.
- Implemented basic TTL support and durability via append-only file logging.
- CLI client included for testing usage and concurrent performance.

Experience

Backend Developer (Freelance)

Remote

2023 – Present

- Developed and maintained backend systems for small business clients, focusing on **API design**, database efficiency, and deployment.
- Integrated **Razorpay** for secure payments with proper validation, encryption, and failure handling.
- Improved API performance through **query optimization**, **code refactoring**, and database indexing.
- Used **Docker** for deployment and set up **CI/CD pipelines** for testing and versioned releases.

Education

B.Tech in Artificial Intelligence and Machine Learning *Sri Shakthi Institute of Engineering and Technology* 2022 – 2026

- CGPA: 7.93 / 10
- Coursework: Data Structures, OS, DBMS, CN, ML, Software Engineering

Achievements

- Solved 350+ problems on LeetCode, focused on DSA and problem-solving.
- National Hackathon Finalist (AI track, 2025).
- Led a 6-member team to create a digital coordination platform for urban governance.
- Certified in Full Stack Development (Unstop) and Generative AI (Infosys).