

Vivek Prakash

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portfolio-frontend-one-ruddy.vercel.app

Professional Summary

To contribute as a backend engineer by designing and deploying scalable, secure, and high-performance systems that impact users at a global scale. With expertise in **C++, Go, REST APIs, microservices, and distributed systems**, along with **hands-on experience solving 500+ DSA challenges and optimizing API performance**, my goal is to drive innovation, improve system efficiency, and grow among the best engineers while delivering reliable solutions in challenging, world-class environments.

Technical Skills

Languages: Go (Golang), C++, C, JavaScript (basic), HTML, CSS, React (basic)

Frameworks: Gin, Fiber, Tailwind CSS

Databases: MySQL, PostgreSQL, MongoDB

Tools: Git, GitHub, Docker, Linux, Postman, Render, Vercel

Core CS: Data Structures & Algorithms, System Design, OOP, OS, Networks

Projects

Email Domain Checker

github

- Reduced response time by **40%** using Goroutines for parallel checks.
- Added real-time indicators and CORS handling, cutting debugging time by **30%**.
- Engineered a robust full-stack email verification system integrating DNS MX record lookups and multi-domain support, system processes 10,000+ daily verification requests with **99.9%** accuracy.

Weather-app

github

- A high-performance Go-based weather microservice serving real-time data for 500+ cities with intelligent caching, reducing API latency by 85
- Integrated a RESTful API for the weather app using Go, which provided real-time updates and reliable data delivery, leading to 99.9
- Implemented scalable, production-ready architecture with Dockerized deployment, health monitoring, and robust error handling supporting 1000+ requests/hour.

HTTP Load Balancer

github

- Engineered intelligent round-robin load balancer with real-time health monitoring and automatic failover capabilities.
- Implemented custom reverse proxy with concurrent request handling, reducing response latency by 35% under high load.
- Achieved 40% uptime improvement and reduced failed requests from 15% to under 5% through fault-tolerant architecture.

Achievements

- Solved **350+ LeetCode** and **180+ GfG** problems.
- Built and deployed **5+ backend projects** in Go.
- Won **1st Prize** for Smart Blind Stick (Arduino + ultrasonic sensors) detecting obstacles within **2m**.

Education

Dayananda Sagar University, Bengaluru

8.59/10 2022 – Present

B.Tech in Computer Science

V.B.S. Purvanchal University, U.P.

M.Sc. in Mathematics

73% 2020 – 2022

B.Sc. in Mathematics

65.38% 2017 – 2020

Higher Secondary School, U.P.

67% 2014 – 2016

Secondary School, U.P.

7.8/10 2012 – 2014

Certifications

Go: The Complete Guide (Udemy)

Mastering DSA in C/C++ (Udemy)

Linux Bash Scripting Training (Infosys Springboard)