Vivek Prakash

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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
Frameworks & Libraries: Gin, Fiber, Tailwind CSS, React (basic)
Databases: MySQL, PostgreSQL, MongoDB
Tools & Platforms: Git, GitHub, Docker, Linux, Postman, Render, Vercel
Core CS Concepts: Data Structures & Algorithms, System Design, Object-Oriented Programming (OOP), Operating Systems, Computer Networks

Projects

Email-Intelligence-Platform   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.

WeatherStack   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 **400+ LeetCode** and **150+ GfG** problems.
- Built and deployed **3+ backend projects** in Go.
- Won **1st Prize** for Smart Blind Stick (Arduino + ultrasonic sensors) detecting obstacles within **2m**.

Education

Dayananda Sagar University, Bengaluru
B.Tech in Computer Science   8.59/10 2022 – Present

Certifications

- Go: The Complete Guide (Udemy)
- Mastering DSA in C/C++ (Udemy)
- Linux Bash Scripting Training (Infosys Springboard)
- TechA Data Visualization using Power BI Certification
- Image Processing with MATLAB

Hobbies

- Passionate about exploring technology and innovation
- Traveling
- Personal well-being