

Veer Pratap Singh

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Summary

Linux and backend systems enthusiast with over 4 years of experience in Go and Rust. Built and scaled high-performance systems, including a Telegram bot with 300K+ users and a container runtime in Go. Strong background in Docker, Kubernetes, CI/CD, and infrastructure optimization, achieving up to 40% performance improvements.

Education

Vellore Institute of Technology, Chennai, India

Bachelor of Computer Engineering

Aug 2023 – Present

Cumulative GPA: 9.08 / 10.00

Technical Skills

Programming Languages: Go, Rust, Python, C, C++, Java, TypeScript/JavaScript, Shell
Frameworks & Libraries: React.js, Next.js, Tailwind CSS, Gin, GORM, Flask, FastAPI, SQLAlchemy

Databases: PostgreSQL, SQLite, MySQL, MongoDB

DevOps & Tools: Docker, Nginx, IPTables, FirewallD, Jenkins, GitHub Actions, Claude Code, Codex

Work Experience

Coding Jr - Remote

Fullstack Developer Intern

Aug 2025 – Oct 2025

- Developed and maintained backend APIs in Go (Fiber, GORM), working with Redis caching and Aurora/MySQL-backed persistence.
- Integrated AI capabilities via OpenAI and Amazon Bedrock APIs, handling request orchestration and middleware integration.
- Supported frontend development in Next.js/React, deploying static builds to AWS CloudFront.

Volunteer Technical Experience

Linux Users Group — Chennai, India

Technical Sub-Lead

Oct 2023 – Present

- Developed and optimized a CTF platform backend using FastAPI and Tortoise ORM, improving response times by 25%.
- Designed a concurrent TCP-over-HTTP tunneling system in Go, balancing latency, throughput, and connection reuse tradeoffs.

- Designed and maintained CI/CD pipelines, reducing deployment time from hours to minutes.

Divide Projects

Technical Lead

Dec 2021 – May 2023

- Spearheaded the development of a scalable Telegram bot using Go and MongoDB, achieving 99.9% uptime while serving over 300,000 users and processing 600 messages per second.
- Implemented a distributed architecture to handle peak loads, reducing downtime by 40%.

SpamWatch

Software Developer

Jul 2021 – Dec 2021

- Maintained a Golang library for spam protection, reducing detection latency by 30%.

Projects

WarpDL

A Cross-platform download manager built in Go and TypeScript with features such as resumable downloads, multi-threaded fetching, and efficient disk IO with automated release pipelines, achieving 20% faster downloads.

Tech: Go, Shell, PowerShell, TypeScript/JavaScript, GitHub Actions

GoTGProto

Designed and maintained GoTGProto, a high-use Go library (300+ stars on GitHub) serving as a wrapper for the Telegram MTProto client — improved API ergonomics and extensibility for bot clients.

Tech: Go

Vesselizer

Engineered a lightweight container runtime using Linux namespaces and cgroups, trading feature breadth for faster cold start performance using Golang and Linux system calls, achieving a cold start time of under 80ms and reducing image size by 45% compared to Docker.

Tech: Go, Linux

Galactron

Automated key Telegram channel management tasks using a Go-based bot, leading to a 45% decrease in user support tickets and freeing up staff time to focus on high-priority issues.

Optimized PostgreSQL queries using indexing and query analysis, reducing p95 response latency under peak load.

Tech: Go, PostgreSQL

FinLoc

AI-powered financial platform for local businesses and individuals.

Tech: Go, React.js, Next.js, Python

Certifications

- Learning Kubernetes — September 2023
- Learning the JavaScript Language — December 2023
- OCI Foundations Associate — November 2025