Yasasvi Gumma

Applying for: Software Engineer | Full-Stack Developer

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Summary

Full-stack developer with experience building open-source tools in Go and Bash. Proficient in server orchestration using Proxmox and deploying self-hosted, scalable architectures. Skilled in optimizing infrastructure for performance and automation, with a practical background in developing projects across finance, cloud computing, and real-time systems.

Education

Bachelor Of Technology in Computer Science & Engineer

MLR Institute of Technology — Dec 2021 – June 2025

- Early Git/GitHub proficiency, enabling version-controlled workflows from my first year.

Board of Intermediate Education

Bhashyam College — May 2018 – Jul 2021

- Proactive learner with a track record of intellectual curiosity since intermediate education.

Secundary School Certificate

Bhashyam High School — May 2016 – Apr 2018

- Maintained a strong record of collaborative interpersonal skills and disciplined conduct.

Technical Skills

Programming Languages:

- Go (Preferred), Python, SQL, Bash, JavaScript, HTML/CSS

Infrastructure & DevOps:

- Proxmox, Docker, K8s, Ansible, GCP, Linode, SSH Hardening.

Backend & Data Engineering:

- Go Concurrency, Microservices, REST APIs, SQLite (WAL), Chromedp (Web Scraping), Streamlit.

AI, Analytics & Automation:

- AI Integration (Ollama/LLMs), Analytics, GitHub Actions, Git, n8n

Core Competency:

- Unified Go Architecture, Proxmox Infrastructure Orchestration, Resource-Efficient Scaling, Cross-Domain Engineering.

Soft Skills:

- Analytical Problem-Solving, Resourcefulness, Technical Communication, Adaptability, Cross-Domain Collaboration

Projects

Blood Transmutation: *AI-Driven Molecular Composition Analysis*

- Developed an AI-driven system to analyze blood composition and model the theoretical conversion of blood types via molecular modification.
- Leveraged LLMs to research and simulate enzymatic pathways for antigen removal, inspired by Nobel-winning DNA research.

Echo Flow: *Local-First Voice Accessibility Assistant*

- Developed a voice-enabled accessibility assistant using Ollama for local LLM processing and intelligent response generation.
- Integrated browser-native Speech-to-Text and Google TTS for efficient, real-time audio-to-text communication.

Tweet Analysis Tool: *Headless Web Scraping & Sentiment Engine*

- Built a Go-based scraper using Chromedp to extract real-time tweet data via specific post IDs, bypassing standard API limitations.
- Integrated sentiment analysis to process harvested data, providing automated insights into user engagement and public opinion.

Medical Assistant: *High-Efficiency Symptom Diagnostic Chatbot*

- Engineered a diagnostic chatbot to streamline symptom assessment and provide preliminary medical insights.
- Optimized system resources for high-efficiency performance, ensuring low memory overhead during user sessions.

Bank App: *Multi-Interface Financial System with Unified Go Backend*

- Architected a unified Go backend that concurrently manages both a GUI and a CLI interface via a shared REST API.
- Implemented a lightweight transactional system using SQLite in WAL mode to ensure data integrity across multiple client endpoints

Certifications

- Computer Hardware Basics (2025)
- Web Development Internship – Coincent (2024)
- Data Science with Python (2022)

Achievements

- **Infrastructure Optimization**: Converted a repurposed laptop into a dual-node Proxmox cluster, replacing paid VPS services with a self-hosted environment offering 2x the compute and 20x the storage at zero monthly cost.
- **Self-Hosted Solutions**: Deployed and maintained a production-grade Docmost instance (Notion alternative), achieving significant cost savings by migrating workflows from paid platforms to a custom-configured private cloud.