

S DISHAN SAMUEL

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Professional Summary

Systems & DevOps Engineer with hands-on experience in Linux infrastructure, cloud-native architecture, and low-level tooling. Proven ability to architect automated CI/CD pipelines, deploy secure Infrastructure as Code (IaC), and build custom observability systems. Passionate about system optimization, secure networking, and ensuring high availability for distributed services.

Skills

Orchestration & Cloud: Kubernetes (K3s), Docker, AWS, Cloudflare Zero Trust.
Infrastructure & Automation: Terraform, Ansible, CI/CD Pipelines, Git.
Systems & Networking: Linux (Fedora & RHEL), BASH, systemd, tmux, WireGuard, TCP/IP, SSH.
Programming & Backend: Go (Golang), Python, JavaScript, REST APIs, PostgreSQL, MySQL.

Experience

Abstract Studio Jan 2026 – Feb 2026
Software Engineering Intern

- Architected and deployed a highly concurrent backend for a peer-to-peer platform in Go, supporting 500+ simultaneous connections with zero degradation.
- Managed secure containerized deployment contexts, optimizing resource allocation for distributed backend services and ensuring zero-packet-loss data flow.

Projects

Zero-Trust Edge Infrastructure & Automated CI/CD Pipeline | *Cloudflare, Ansible, Kubernetes, Nginx* [View](#)

- Architected a secure, zero-trust edge deployment utilizing Cloudflare Tunnels, exposing a custom domain (dishan.systems) while eliminating inbound firewall attack vectors.
- Automated bare-metal server provisioning and configuration management using Ansible, enforcing an immutable, dependency-free host operating system.
- Engineered a custom CI/CD pipeline leveraging ephemeral Kubernetes (K8s) Jobs to isolate Node.js build processes, entirely preventing host-level environment contamination.
- Deployed compiled static web assets via an Nginx Ingress controller within the K8s cluster, achieving high-performance content delivery and scalable container orchestration.

System-Event Gateway & Observability Pipeline | *Go, Linux* [Github](#)

- Developed a high-throughput observability gateway in Go to parse system logs at 2,000+ lines per second, monitoring SSH logins and resource anomalies in real-time.
- Engineered a secure alert pipeline using a locally hosted *ntfy* instance routed through custom domain Cloudflare tunnels, delivering push notifications with sub-50ms latency.

ManSys | *Go, Bash, Linux systemd* [Github](#)

- Engineered a lightweight Linux process management utility to automate the initialization, monitoring, and termination of system services, reducing manual intervention time by 60%.
- Optimized systemd configurations for minimal resource overhead in restricted operational environments, cutting baseline memory consumption by 150MB.

ShadowBrowse | *Go, Docker* [Github](#)

- Built a sandboxed virtual execution environment utilizing isolated Docker containers to protect local hardware from untrusted network traffic.
- Implemented a pre-execution link-analysis module for malicious behavior detection and automated network isolation, successfully blocking over 40 exploit vectors.

AgriVoice | *JavaScript, Twilio, AssemblyAI* [Github](#)

- Engineered an offline, call-based AI voice assistant to provide automated guidance over standard telephone networks in low-connectivity areas.
- Implemented an edge-processing architecture to handle voice commands and generate responses entirely without internet access on the client side, servicing 100+ request cycles.

Certifications

- [Introduction to Linux \(LFS101\) - Linux Foundation](#) | Credential ID: LF-k4cij50bd4

Achievements

Published Research — IEEE ICAECT “AgriBot: An LLM-Guided IoT System...”	2026
2nd Place — XENITH 2025 <i>TerminalX Hackathon</i>	2025
1st & 2nd Place — Techfusion <i>CypherQuest & IOTRIX</i>	2025

Education

Dayananda Sagar Academy of Technology and Management
Bachelor of Technology: Computer Science | CGPA: 7.94 (Current) 2023 - 2027