

SARKIS DER WARTANIAN

Systems Architect & Site Reliability Engineer

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PROFESSIONAL SUMMARY

Systems Architect and Infrastructure Engineer bridging the gap between bare-metal networking and scalable cloud environments. I specialize in designing self-healing networks, optimizing data flows at the Linux kernel level, and building the automation pipelines that keep high-availability environments running seamlessly. Combining deep network engineering (BGP, edge-routing) with full-stack software development (Golang, Python, Flutter) to engineer highly efficient, secure, and bandwidth-optimized deployments from Layer 1 to Layer 7.

TECHNICAL ARSENAL

NETWORKING/ISP:	IP routing, VLANs/bridging, DHCP, WireGuard, L2TP, MPLS, SNMP/sFlow, QoS/traffic shaping, CGNAT, BGP route-based marking, DNS records.
LINUX:	Ubuntu / Debian / Fedora / CentOS. ipset, iptables, tc, accel-ppp, mdadm, ZFS, Docker/ docker-compose, bash, tcpdump, nmap, FreeRADIUS, Prometheus.
WINDOWS:	Hyper-V, WSL, Wireshark, Zenmap, WinSCP, Winbox, The Dude, diskpart, HDTune, Recuva, Powershell.
PLATFORMS / CLOUD:	pfSense, OPNsense, OpenWrt, MikroTik CHR, Proxmox, VMware ESXI, AWS (EC2, S3, IAM, Lambda).
DEVELOPMENT:	Go (Golang), Python, Bash, PowerShell, Flutter/Dart, Kotlin & Android Native (ExoPlayer, GeckoView), JavaScript & DOM Manipulation, SQL.

PROFESSIONAL EXPERIENCE

CloudSP (Internet Service Provider)

Feb 2023 Feb 2026

Infrastructure Automation Engineer & SRE

- **Development & Automation:** Developed custom solutions using Golang for kernel-level patches, exposed metrics via TCP, and engineered resilient automation pipelines using Python and Bash to ensure 100% disaster-readiness.
- **Monitoring & Telemetry:** Architected a comprehensive observability stack. Gathered telemetry using SNMP and sFlow, exporting metrics to Prometheus. Built a Telegram bot communicating with Grafana for custom visual alerts, and used Zabbix triggers to execute automated SSH scripts on Juniper firewalls.
- **Core Networking & Traffic Shaping:** Managed and scaled core ISP infrastructure. Orchestrated

advanced traffic shaping, queuing, and transit routing on Juniper EX4600 and Linux servers using tc and BGP/OSPF. Configured IPS, VLANs, WireGuard VPNs, L2TP, and MPLS across a high-availability topology.

- Byte-Level Accounting: Built a per-customer CDN and transit telemetry system: utilized Golang to scrape byte-level data from tc, handled PPP session lifecycles, and processed RADIUS attributes in real-time.

Microfolie Computers

2018-2023

Systems & Network Engineer

- Served as the Tier 3 escalation point for critical outages, utilizing deep-packet analysis (Wireshark/tcpdump) to isolate and resolve complex Layer 1, Layer 2, and server-side faults.
- Authored standardized configuration templates (IaC) and automated provisioning workflows for field teams, ensuring strict, unified security and performance standards across all edge deployments, switches, and routers.
- Architected and deployed custom bare-metal enterprise servers, establishing strict Active Directory access controls, VLAN segmentation, and rigorous departmental security policies.

CompuWorld

2015-2017

IT Infrastructure Technician

- Managed the security posture of customer-facing Linux and Windows servers, implementing SSH key-based authentication, firewall hardening, and automated vulnerability patching.
- Utilized CH341A hardware programmers to perform out-of-band firmware recoveries, interfacing directly with onboard SPI Flash chips to bypass corrupted bootloaders and restore mission-critical bricked devices.

PERSONAL ENGINEERING PROJECTS

Hybrid Media Engine

Flutter/Kotlin / GeckoView/ExoPlayer/JavaScript

- Engineered a custom Android application utilizing Mozilla GeckoView and native ExoPlayer to bypass mobile web restrictions, enabling hardware-accelerated Picture-in-Picture (PiP).
- Engineered a lazy-loading state handoff protocol via JavaScript DOM injections to prevent bandwidth starvation, deferring background ExoPlayer initialization until the primary engine is paused.
- Developed a native Android BroadcastReceiver to intercept OS-level media intents directly from the PiP window, routing commands across a Flutter MethodChannel for frame-perfect playback synchronization.
- Bypassed standard WebView OAuth restrictions, allowing secure, native Google account authentication without triggering disallowed user-agent flags.

Cloud Orchestrator

Flutter/AWS/Docker/Cloudflare

- Architected a cross-platform mobile monitoring suite enforcing Zero-Waste FinOps.
- Integrated AWS EC2 APIs and Docker daemon checks for deep container verification, bypassing basic instance polling.

- Engineered automated self-healing DNS via Cloudflare's API to dynamically map newly assigned compute IPs.