

Gus Fowler

Network Engineer

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SUMMARY

Network engineer at Iridium Satellite, leading the migration of legacy circuit-switched voice and data services to SIP while keeping 2G interoperability and safety-of-life traffic intact. Promoted four times since joining the network operations floor in 2023. Runs a homelab as a small production network. Interested in network and infrastructure engineering, NOC, SRE, and cloud telecom roles.

EXPERIENCE

Iridium Satellite — *Network Engineer III – Legacy Services Lead* May 2023 – Present

Network Control Specialist I (May 2023) → Network Engineer I (Feb 2024) → Network Engineer II (Oct 2024) → Network Engineer III (Feb 2026) → Legacy Services Lead (Jul 2026)

- Lead the legacy services side of the team, providing technical direction across Iridium's legacy circuit-switched voice and data services.
- Drive the migration of those services to SIP while maintaining interoperability with 2G technology; two services migrated to date, several more planned.
- Retired a costly legacy circuit-switched trunk by bringing traffic in over SIP through a SIP-to-SS7 protocol converter into the legacy voice switch, cutting the monthly recurring cost from roughly \$100k to \$8k.
- Migrated roughly 8,000 DIDs with no customer impact, including two safety-of-life services (ATS and GMDSS).
- Own the legacy voice switch; simplified voice call routing, which improved call quality and made faults easier to diagnose.
- Plan, write, and execute my own updates and infrastructure changes; mentor a junior engineer on the team.
- Started at the first tier of the on-call escalation chain for the prepaid and safety services. On the NOC floor, built a Telegraf, Prometheus, and Grafana pipeline collecting about 40 metrics per second from the MPLS network, and wrote Python tooling for verification and maintenance procedures.

Mashgin — *Deployment Engineer* · Phoenix, AZ May 2021 – Jul 2021

Deployment Engineering Intern Oct 2020 – May 2021

- Deployed more than 60 computer-vision point-of-sale kiosks across Arizona Circle K stores and trained staff at more than 20 locations on operation, troubleshooting, and escalation.
- Diagnosed and repaired more than 50 hardware and software faults in the field; onboarded more than 250 customers onto a self-checkout system and reported field issues back to the deployment team.

Cromwell Architects and Engineers — *IT Intern* · Little Rock, AR Summers 2018 – 2019

- Provided first-line hardware and software support and kept workstations patched and provisioned; built a synchronized digital-signage system and extended Wi-Fi coverage into a large conference room.

Hocott's Garden Center — *Sales and IT Specialist* · Little Rock, AR Aug 2014 – May 2018

- Replaced the business phone service with a self-hosted SIP/VoIP system, including a mobile extension; rebuilt the network for on-site hosting, public Wi-Fi, and CCTV.

Other experience: AMC Theatres, Crew Member (Jul – Nov 2022) · The Tennis Shoppe, Sales (Aug – Dec 2021)

HOMELAB

- Multi-node Proxmox VE cluster (KVM and LXC) behind an OpenWrt edge on a reflashed firewall appliance, with VLANs separating trusted, server, IoT, and guest networks under default-deny policy.
- Self-hosted headscale tailnet for remote access with no inbound ports; Zabbix alerting; Grafana Alloy, Loki, and Grafana for logs; an internal certificate authority with Traefik; Ansible for configuration; an AI operations agent that handles known fixes.

EDUCATION

Arizona State University — B.S. Computer Science, Ira A. Fulton Schools of Engineering Aug 2018 – Dec 2022

SKILLS

Voice and telecom: SIP, SS7 interworking, circuit-switched voice, 2G interoperability, DID migration, call routing

Networking: MPLS, VLANs, firewall policy (iptables), DNS, DHCP, OpenWrt, WireGuard / Tailscale (headscale), TLS / PKI

Monitoring: Prometheus, Grafana, Telegraf, Zabbix, Loki, on-call and escalation

Systems: Linux, Proxmox VE (KVM, LXC), Docker, Ansible, Python, Bash, Git