August Fowler (Gus)

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Portfolio: [gusfowler.com](https://gusfowler.com/)

[linkedin.com/in/august-fowler](http://www.linkedin.com/in/august-fowler)

[github.com/gusfowler](https://github.com/gusfowler)

Professional Experience:

**Iridium Satellite**

Network Control Specialist I – May 2023 to Present

* Constructed a monitoring system that intakes and visualizes 40 metrics per second using Telegraf, Prometheus, and Grafana to aid operators in identifying and troubleshooting issues within Iridium's MPLS network.
* Identified and resolved anomalies in real-time, ensuring uninterrupted service through swift and decisive action.
* Engineered Python scripts to optimize verification and maintenance procedures, resulting in increased process safety.
* Collaborated with Engineering to identify monitoring needs, and saw through their implementation.

**Mashgin**

Deployment Engineer – May 2021 to July 2021

* Assembled and advanced deployment of 60+ Mashgin Point-of-Sale kiosks for Arizona Circle-K stores, increasing reach and marketability
* Trained relevant stakeholders at 20+ locations on using and promoting Mashgin's PoS, simple documenting, troubleshooting, and escalation
* Debugged, reconfigured, and repaired 50+ instances of both Mashgin software and hardware, to aid in improving, maintaining, and safeguarding the end user's experience

**Mashgin**

Deployment Engineer Internship – October 2020 to May 2021

* Educated 250+ customers and clients on how to use Mashgin to increase adoption, reduce barrier-to-entry and learning curve, while improving Mashgin’s machine learning model
* Targeted customers who have a higher ‘barrier-to-entry,’ specifically age 50+, to new technology to try using Mashgin, to increase the breadth of Mashgin’s audience
* Collaborated within the Deployment team to get quick solutions and answers to complex issues

Education:

**Arizona State University**

Bachelor of Science – Computer Science

August 2018 to December 2022

Dean’s List Fall 2018

Project Experience:

**Portfolio Website and WireGuard Endpoint –**[gusfowler.com](https://gusfowler.com/)

Personal Project

* Deployed an Oracle Flex Instance running Ubuntu as the operating system to host WordPress, Nginx, and MariaDB on top of Docker, providing a flexible and scalable solution
  + Docker allows for easy duplication or replication, resulting in quick incident recovery
* Configured WireGuard on the Oracle Flex Instance to provide site-to-site and site-to-remote access between two locations and 3 individual clients, ensuring secure and reliable connectivity for all users
* Serve professional portfolio website using WordPress, customizing the website to reflect personal branding and creating a visually appealing and user-friendly experience for potential employers
* Implemented Cloudflare SSL encryption for the portfolio website, ensuring secure communication for 45 users per day
* Configured Cloudflare analytics to monitor website traffic and user behavior, providing valuable insights on 500+ requests daily

**Proxmox HomeLab**

Personal Project

* Deployed Proxmox on both Intel and AMD platforms, configured for IOMMU and VFIO, to give 9 virtual instances access to physical devices, with near-native performance
* Reduce time to spin up, duplicate or alter an environment
* Deployed instance of OpenWRT with direct PCI-E pass-through of platform NICs, that supports 10 physical clients and 6 virtual clients, and blocks 14k malicious DNS queries per day using PiHole
* Serve Windows 11 instance configured with VFIO GPU and NVME PCIe pass-through and tuned for performance

Skills:

**Languages:** Python, Swift, SwiftUI, C, C++, Bash, SQL

**Tools:** KVM, VFIO, LXC, Docker, git, Iptables, Wireshark, WireGuard, Hashcat, PiHole, Samba

**Software:** Proxmox, VSCode, OpenWRT, Home Assistant, macOS, Debian-Flavored Linux, Windows, RHEL