

Michael Olson

Portfolio : michaelolson.io | Blog: blog.michaelolson.io | LinkedIn: [michael-olson-infrastructure](https://www.linkedin.com/in/michael-olson-infrastructure) | michael@michaelolson.io

TECHNICAL SKILLS

Systems Architecture | Infrastructure as Code | Automation | Container Orchestration | Linux Administration | Incident Response

WORK EXPERIENCE

Goldman Sachs - Associate Production Engineer

Salt Lake City, UT

April 2025 - June 2025

- Developed and implemented a Python utility leveraging AWS S3 APIs, regex-based filename parsing, and date-range analysis to detect missing weekday data artifacts while excluding non-business days across 1000's of S3 objects.
- Designed the tool as a reusable CLI with documentation and configurable flags for use across multiple environments.
- Monitored production systems during critical operating hours and documented post-incident root causes, failures, and resolutions.

Raytheon Applied Signal Technology - Infrastructure / Network Engineer

Salt Lake City, UT

January 2023 - April 2025

- Provided a solution for Strimzi Kafka supporting certificate chain of trust, integrating TLS with FreeIPA, Cert-Manager, and Kafka.
- Developed a solution to simplify deploying Helm charts via Ansible, significantly reducing complexity and 70 lines of code per role.
- Managed the build-out and configuration of a test system consisting of 2 RHEL hypervisors, 12 Rocky Linux VMs, replicated DNS and NTP, RPM repos, Cisco switch configuration for 3 VLANs, troubleshot FPGA issues at the operating system level.
- Designated maintainer of the on-site lab network; consisting of onboarding team members, troubleshooting network issues, deploying Rocky Linux and Windows 10 VMs, creating and documenting processes for consistency, installing and configuring Cisco switches and Dell servers, on call due to lab overheating issues.
- Documented, produced and maintained the full build-out of a test-bed for developers consisting of rke2, Rancher (Fleet), Cert-Manager, Trident, Helm and FreeIPA on Rocky Linux hosts; onboarded and delegated tasks to 5 team members.
- Developed a Python utility that would connect to hypervisors and gather VM metadata, format the data into tables and post it to a Confluence page, reducing toil for engineers when looking for what servers their VMs are physically running on.
- Developed Ansible roles for automating tasks, such as installation/configuration of in-house software and creating compute profiles for Foreman incorporating hashing values to generate names and reduce duplicate profiles.
- Configured an Ansible role capable of configuring a host to act as a collector for IPFIX protocol, granting the user a lot of flexibility including log rotation and the ability to run a service capable of outputting that data to be viewed via a metrics dashboard.
- Configured, documented and automated the process of connecting 2 servers via Wireguard over the internet through a bastion host.

AdvancedMD - Site Reliability Engineer Intern

Salt Lake City, UT

October 2022 - December 2022

- Assisted in converting an in-house monitoring application from being a static website into a single page application, notably adding the functionality of switching between light and dark mode based on user's preference.
- Added the functionality for users to alternate between light and dark mode based on already created themes in React via the MaterialUI library, utilizing React State and Props as well as persistent cookies to store user preferences.
- Developed a feature in Django and React.js that would fetch user's profile pictures from Azure REST API and display them on the dashboard when the user was logged in.

EDUCATION

Neumont College of Computer Science - BS Information Systems (3.6 GPA)

Salt Lake City, UT

September 2019 - December 2022

- Developed a project which consisted of a Wails desktop application, authentication via AWS API Gateway and AWS Cognito, MongoDB Atlas for storage, and AWS Lambda for serverless queries to MongoDB Atlas.

AWS - Solutions Architect - Associate Certification

Salt Lake City, UT

Expiration Date: September 2025