

JAMES OLDS

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SUMMARY

Infrastructure Engineer with over 10 years of experience focusing on technology solutions that solve business needs. I leverage my experience across a diverse range of industries and technologies to automate and abstract infrastructure so the business can focus on the mission. Bachelor's degree in Software Development & Security.

EDUCATION

University of Maryland Global Campus

2018

BS Software Development and Security – Deans List

PROFESSIONAL EXPERIENCE

Infrastructure Engineer

Remote

Oden Technologies

November 2021 – August 2022

- Evaluated multiple solutions and implemented Garden.io to streamline the Kubernetes development cycle, with a goal of reducing merge conflicts and mean time to merge.
- Wrote terraform for and maintained a large scale data analytics deployment on Google Cloud (GCP).
- Migrated Google Cloud Monitoring dashboards to Grafana with jsonnet and terraform, greatly improving the observability and monitoring UX.
- Configured an initial implementation of the Bazel build system to improve the Golang monorepo build and deploy process.
- Configured Statuspage.io to provide customers with up-to-date status of Oden's major components.

Sr. DevOps Engineer

Remote

Ad Hoc LLC

June 2018 – November 2021

- Developed a browser based code evaluation environment with Golang on Google Cloud Platform (GCP) using Identity Aware Proxy (IaP) to enable engineers 1-click access to view and run candidate code reducing a major bottleneck in the recruitment pipeline.
- Migrated Packer / Ansible and ElasticBeanstalk EC2 hosts to ECS Fargate, greatly reducing operational complexity and maintenance requirements while increasing security and deployment velocity.
- Led the migration of Jenkins pipelines to AWS CodeBuild and Github Actions, significantly reducing the operations overhead of managing and troubleshooting self-hosted Jenkins.
- Created and maintained all cloud infrastructure as code (IaC) with Terraform and YAML. Utilized open source Terraform modules where possible, contributing features back upstream.
- Designed technical challenges for engineering candidates including containerizing a Python app fronted by an nginx reverse proxy with docker-compose.

PROFESSIONAL EXPERIENCE — CONTINUED

Sr. Network Administrator

Oklahoma City, OK

Supreme Court of Oklahoma

June 2016 – June 2018

- Designed a pipeline for network infrastructure validation using Salt to orchestrate virtual machine deployment to Linux KVM hosts. Utilized Ubuntu MAAS for bare metal and hypervisor provisioning.
- Wrote a web application monitoring service in Python using the Serverless Framework on AWS Lambda.
- Used Azure DevOps Server for version control and release pipelines to automate network infrastructure changes.
- Developed a Python library for SilverPeak's SD-WAN API to automate and validate configuration changes across a large-scale fleet of edge devices.
- Automated configuration management of Linux hosts using Terraform, Ansible, and Docker containers.

Full Time Student

Multiple Locations

University of Maryland University College

October 2015 – March 2018

- Developed a Spring Boot home automation REST API using JWT for authentication and MongoDB for the database as part of a remote team.
- Wrote PHP and Java applications following secure coding practices outlined by OWASP.
- Configured AWS CodePipeline and CodeBuild for continuous integration and continuous deployment (CI/CD) of applications.

Lead Network Engineer

Manama, Bahrain

CSC – Computer Sciences Corporation

October 2014 – October 2015

- Automated configuration of a large-scale fleet of network devices using Python and Perl.
- Designed custom SolarWinds compliance reports standardizing network device configuration while ensuring 100% of devices conformed to strict DoD standards.
- Scaled VMware vSphere deployment by configuring Cisco 1000v and Nexus switches for two new hypervisors increasing compute and storage capacity by 40%.
- Maintained an 8-node virtualized Cisco ISE deployment providing access layer security across two network enclaves for over 5000 endpoints.

Information Systems Technician First Class

Washington, D.C. / Manama, Bahrain

United States Navy

August 2009 – October 2014

- Engineered a secure remote access solution that delivered sub-second failover while reducing CapEx costs by 20% on each new site deployment.
- Led the migration to multi-area OSPF over DMVPN, securing remote site traffic while providing greater uptime for mission critical networks.
- Implemented a multicast solution to deliver strategic live video to key decision makers while greatly reducing bandwidth requirements.
- Mentored junior technicians leading to four CCNA certifications over the course of a year.
- Maintained network documentation and diagrams using Microsoft Visio.