Samuel **Calvert**

COMPUTER ENGINEERING PROFESSIONAL · (HE/HIM)

New York City Metropolitan Area

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Computer Engineering professional with expertise in infrastructure automation, networking, and systems troubleshooting.

Experience

Haivision Network Video   *Remote, New York City*

TECHNICAL SUPPORT ENGINEER   *Jul. 2022 - Present*

- Identify and resolve deployment problems across defense, broadcast, and enterprise clients
- Implement immutable Packer images to standarize troubleshooting procedures and cut response time by 15%
- Troubleshoot enterprise network (500+ endpoints) and streaming infrastructure processing 50Gbps peak traffic
- Team lead on documenting critical procedures for hands-on data recovery and restore
- Optimizing streaming performance for three letter agencies' secure multicast networks
- Managed technical transition of Sony legacy RTSP streaming infrastructure to modern SRT protocol, reducing latency by 30x

University of Delaware EECIS Department   *Newark, DE*

LAB STAFF   *Jun. 2019 - Aug. 2021*

- Maintained 25 servers handling 1M+ monthly web requests and 100TB of research datasets
- Developed new ESXi based VM system for student project deployment
- Supported machine learning and AI researcher scheduling with SLURM
- Implemented automation for routine maintenance of university mail servers with Ansible

University of Delaware Machine Learning   *Newark, DE*

RESEARCH INTERN   *Jun. 2020 - Aug. 2020*

- Developed network intrusion detection systems (IDS) using GAN-based neural nets
- Simulated GNS3 virtual networks to quickly iterate over different topologies
- Containerized solution using Docker for deployment flexibility
- Created documentation and testing procedures for research outcomes

Projects

Homelab Kubernetes Infrastructure ⊙

PERSONAL PROJECT

- Designed and implemented multi-environment Kubernetes clusters running on Proxmox VMs
- Created complete infrastructure-as-code solution using Terraform, Ansible, and GitOps methodologies
- Developed automation for the entire infrastructure lifecycle from VM template creation to application deployment
- Implemented monitoring stacks with Prometheus/Grafana and self-hosted DNS solutions
- Architected environment-specific configurations while maintaining common base components

Technical Skills

Infrastructure   Kubernetes, Docker, Proxmox, Terraform, Ansible, GitOps
Programming   Bash, Python, Go, HCL, Regex
DevOps   FluxCD, Infrastructure Automation, Configuration Management
Networking   Wireshark, Nmap, GNS3, netcat

Education

University of Delaware   *Newark, DE*

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING   *Graduated May 2022*

Languages   Fluent French Speaker