

# 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 standardize 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