TIMOTHY HARRIS

Systems Engineer | AI-Augmented Infrastructure Specialist | Security Operations Expert | 📍
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RESUME SUMMARY

Systems Engineer with 10+ years enterprise infrastructure experience and 3+ years advanced
SOC development. Recently completed CCNP-level training with expertise in containerized
security orchestration, Infrastructure-as-Code, and AI-augmented operations. Designed and
deployed production-scale monitoring systems processing 15K+ daily events using Docker,
Ansible, and open-source SIEM technologies. Proven track record managing distributed
systems, PCI compliance, and high-availability architectures.

CORE COMPETENCIES

Cloud & Containerization: Docker, Docker Compose, Infrastructure-as-Code (Ansible),
Virtualization (VMware vSphere)
Security Operations: SIEM (Splunk, Wazuh), IDS/IPS (Suricata), Network Analysis (Zeek),
Incident Response, Security Automation, Identity Management, Vulnerability Assessment
Network Infrastructure: Cisco (CCNP-level), BGP, OSPF, VPN, Network Segmentation,
Firewall Management, Load Balancing, TCP/IP
Systems Engineering: Linux (RHEL, CentOS, Arch), FreeBSD, Windows Server,
High-Availability Design, Distributed Storage, Clustering, Active Directory
Hardware & Infrastructure: Server Architecture, Data Center Operations, Performance
Engineering, Capacity Planning, Asset Management
Technical Leadership: Team Leadership, Mentoring, Knowledge Transfer, Process
Improvement, Operational Excellence, Project Management
Monitoring & Observability: Prometheus, Grafana, ELK Stack, Performance Optimization,
SRE Practices, SNMP, Nagios
Development & Automation: Python, Bash, PowerShell, CI/CD, Git, API Integration,
Configuration Management
Compliance & Risk Management: PCI DSS, SOX, Financial Regulations, Data Protection,
Audit Trail Management, Change Management

TECHNICAL PROJECTS & LABS

HSN: Harris Secured Networks - Production-Scale Home SOC | 2022 – Present

- Architected containerized SOC processing 15K+ daily security events using Docker
  Compose orchestration with Wazuh SIEM, Suricata IDS, and Zeek network analysis

- Implemented Infrastructure-as-Code using Ansible playbooks managing 15+ service containers with automated TLS certificate rotation, DNS management, and backup strategies
- Developed Python-based alert correlation reducing false positives by 60% and integrated AI-powered analysis tools for automated threat hunting
- Designed network segmentation using FreeBSD jails and LXC containers with VLAN isolation, demonstrating enterprise-level security architecture
- Achieved 99.9% uptime with comprehensive monitoring stack (Prometheus/Grafana) and automated failover capabilities

LetsDefend.io SOC Simulation & Training | May 2024 – August 2024

- **Completed intensive hands-on SOC monitoring training, triaging 200+ simulated SIEM alerts weekly**
- **Executed detailed incident response protocols across 50+ attack scenarios, including containment, eradication, and recovery**
- **Authored comprehensive incident reports detailing attacker TTPs, reinforcing practical understanding of modern threat landscape**

Bank Infrastructure Rebuild – TX Financial Institution | June 2018 – August 2018

- **Executed complete infrastructure migration for multi-branch banking environment over four strategic weekend deployments**
- **Replaced 200+ legacy desktops, servers, and network printers with hardened, compliance-ready enterprise images using PXE automation**
- **Deployed Windows Server infrastructure with automated imaging and post-deployment validation ensuring zero business interruption**
- **Collaborated with Cisco and Dell/HP enterprise teams to maintain 100% uptime across all critical banking endpoints during migrations**

PROFESSIONAL EXPERIENCE

Independent Systems Consultant & Research | Self-Employed | Remote | 2013 – Present

- Designed and implemented enterprise-grade security infrastructure for personal and consulting projects
- Maintained continuous technical development through advanced certifications and hands-on laboratory environments
- Developed expertise in emerging technologies including containerization, AI-augmented operations, and modern DevOps practices
- Completed comprehensive Cisco networking bootcamp (Spring 2013) advancing routing, switching, and network troubleshooting skills

Hardware Infrastructure Specialist | TX Financial Institution | Texas | July 2018 – October 2018

- Led complete infrastructure modernization for multi-branch banking environment during critical compliance upgrade
- Deployed 200+ enterprise workstations, servers, and network devices using automated PXE imaging and validation protocols
- Coordinated with vendor teams (Cisco, Dell, HP) ensuring zero-downtown migrations across four weekend deployment windows
- Maintained 100% regulatory compliance throughout infrastructure refresh affecting daily operations of 15+ branch locations

DevOps & Systems Engineer | A-Team Systems | Remote | October 2017 – January 2018

- Managed complex FreeBSD server environments for diverse client portfolio, maintaining 99.9% uptime across web (Apache, Nginx), database (MySQL), and application infrastructure
- Implemented DevOps automation and security automation using Ansible and custom scripting on FreeBSD platforms, enabling client infrastructure scaling from single-server deployments to fully redundant, high-availability platforms
- Deployed identity management solutions and access control systems ensuring secure authentication across multi-tenant FreeBSD client environments
- Provided 24x7 systems administration and proactive monitoring for mission-critical client systems, including incident response and performance optimization
- Designed and deployed comprehensive offsite backup and disaster recovery solutions ensuring business continuity and data protection compliance
- Administered and hardened open-source software stacks (FAMP, OpenLDAP) with emphasis on vulnerability management and automated security best practices on FreeBSD

Transportation Operations Specialist | Various Logistics Companies | Multi-State | 2019 – 2025

- Applied systems thinking and operational discipline to optimize complex logistics workflows across 48 states
- Managed critical infrastructure dependencies and real-time problem resolution under high-pressure conditions
- Demonstrated reliability and process adherence in mission-critical operations affecting supply chain continuity

Network and Systems Engineer | SupraNet Communications | Madison, WI | Jul 2012 – Nov 2012

- Reduced WAN circuit downtime by 20% through advanced diagnostic protocols and proactive vendor escalation management
- Managed enterprise Cisco infrastructure (15+ routers, 30+ switches, 10+ firewalls) with load balancing and high-availability clustering serving 200+ concurrent business users on primarily FreeBSD systems

- Implemented distributed storage solutions and PCI compliance protocols ensuring regulatory adherence for payment processing infrastructure
- Provided Tier 3 cross-platform support (FreeBSD, Linux, Windows) maintaining 99.5% customer satisfaction across 50+ client environments
- Led technology evaluation and procurement process, resulting in $50K+ annual cost savings through strategic vendor negotiations
- Developed standardized troubleshooting procedures reducing mean time to resolution by 35%

Linux Systems Engineer | eBoundHost | Buffalo Grove, IL | Jun 2011 – Jul 2012

- Orchestrated migration of 5,000+ customer instances during critical virtualization platform upgrade with <5 minutes downtime per instance using load-balanced clustering architecture
- Managed high-availability Plesk and cPanel clusters with distributed storage across 50+ FreeBSD and Linux servers ensuring 99.99% uptime SLA
- Implemented proactive monitoring and automated failover systems reducing unplanned outages by 40% across distributed hosting infrastructure
- Monitored and optimized server performance during large-scale data center consolidations affecting 10,000+ active hosting accounts
- Created comprehensive documentation and training materials improving team operational efficiency by 15%
- Designed and deployed distributed storage solutions ensuring data redundancy and disaster recovery capabilities

Systems Backup and Recovery Specialist | Sungard Availability Services | Greater Chicago | Sep 2010 – Jun 2011

- Deployed and managed Veritas NetBackup enterprise solutions ensuring data integrity for 100+ mission-critical client systems
- Provided Tier 2 technical escalation support across multi-platform environments (FreeBSD, Linux, Windows Server)
- Configured and deployed enterprise network equipment and server infrastructure for disaster recovery environments
- Maintained 99.8% backup success rate across diverse client infrastructure spanning financial, healthcare, and manufacturing sectors
- Developed backup optimization strategies reducing storage requirements by 25% while improving recovery time objectives

EDUCATION

- Computer Science Coursework | Harper College | Palatine, IL | 2009 - 2010
- Computer Science Coursework | Waubonsee Community College | Sugar Grove, IL | 2007 - 2009

CERTIFICATIONS & TRAINING

- CompTIA Security+ ([Valid until 02/27](#))
- CompTIA Network+ ([Valid until 02/27](#))
- CCNP-Level Cisco Networking Bootcamp | Northstar-tek | April 2024 - July 2024
- CompTIA Network+ and Security+ Training | NetCom Learning | Remote, IL | February 2023 - May 2023
- Ethical Hacking (NDE, EHE) Training | Southern New Hampshire University | May 2022 - November 2022