
SUMMARY

Cybersecurity & infrastructure engineer with 20+ years experience. Skilled in vulnerability remediation, systems hardening, and hybrid system integration. CISSP- and CISA-certified, with a proven record of building resilient, compliant architectures using FOSS tools and automation.

Featured Employers: **Google | British Telecom | Scientific Games**

RELEVANT EXPERIENCE

- 10.2024 – Present **DTE Energy, Cyber Security Analyst**
Gas Cybersecurity Compliance | Strategic Staffing Solutions
Detroit, MI | 40% remote
- Implemented vulnerability management (VM) operations across hybrid IT/OT environments, updating full system remediations (FSR) based on manually calculated CVE and CVSS scores, tracking remediation via SLA-compliant workflows, and reporting risk posture to leadership.
 - Worked with network engineering teams, integrating TLS, IPsec, and 802.1X protocols with RBAC and ACLs to safeguard mission-critical traffic across segmented networks.
- 09.2023 – 10.2024 **Great Lakes Water Authority, Senior IT/OT Infrastructure Administrator**
Cyber & Information Security, Water Resource Recovery Operations
Detroit, MI | Onsite to 20% Remote
- Built and deployed a centralized cyber defense platform integrating SIEM, CMDB, and IPAM (PostgreSQL, Redis, Jenkins) across segmented IT/OT environments.
 - Designed and implemented a clustered Debian/Red Hat Linux virtualization environment with automated provisioning, patching, and sustainment pipelines using PowerShell and Bash, aligned with NIST 800-53, CSF 2.0, and Zero Trust principles.
 - Supported SCADA and DCS modernization efforts through collaborative field operations engagement, troubleshooting hybrid control system architectures, and optimizing database workflows across multi-vendor environments consistent with asset management methodologies.
 - Deployed TLS 1.2 and X.509 certificate frameworks to secure communication channels between DMZ-layer applications.
 - Developed (non-GPT) Active Directory security auditing and reporting solutions, using real-time network diagnostics from Cisco; and change-management for Microsoft 365.
- 06.2023 – 09.2023 **Corewell Health, Systems Engineer**
Critical Environment Engineering | Matech Resources, LLC
Grand Rapids, MI | Onsite to 20% Remote
- Streamlined production infrastructure deployment, cutting delivery time by 40% through workflow optimization and bottleneck elimination.
 - Applied industry-standard deployment methodologies, enhancing scalability, reliability, and maintainability of infrastructure rollouts.

- Identified and resolved critical infrastructure risks ahead of deployment, ensuring minimal downtime and maintaining operational continuity during rollouts.

12.2018 – 12.2021 **Google, Senior Operations Engineer**

*Network Operations | Server Operations | Hardware Operations | Engineering Field Services | Data Center Infrastructure Operations | Google Cloud VMWare
Charleston, SC | Reston, VA | Washington DC | 100% Onsite*

- Deployed the East Coast's Google Cloud VMWare Engine project, delivering 75% of milestones ahead of schedule by driving infrastructure readiness, workload isolation, and secure-by-default configurations across production systems — with emphasis on Linux-based environments modeled after Google's hardened Debian variants (e.g., gLinux), ensuring compatibility, stability, and policy enforcement at scale.
- Developed automation tools (BASH, Python, G-SQL/BigQuery, Protobuf, gRPC, Borg/Kubernetes) to streamline server diagnostics and repair workflows, achieving over 800% recidivist cases and reducing manual repair intervention.
- Awarded 19 Peer Bonuses and 2 Challenge Coins for excellence under pressure during Hurricane Dorian and the COVID-19 pandemic, demonstrating leadership and resilience in global operations.

07.2017 – 12.2018 **Switch Inc., Data Center Technician**

*Network Operations
Las Vegas, NV | 100% Onsite*

- Conducted physical penetration tests for high-profile data center clients, following initial work in smart-hands and rack deployments.
- Automated ticket workflows with AutoHotKey, reducing processing time by 65%.

10.2016 – 06.2017 **Pinnacle Community Services, Senior Systems Administrator**

Las Vegas, NV | 100% Onsite

- Designed and deployed HIPAA-compliant infrastructure using FOSS technologies, implementing hardened firewalls, encrypted storage, RBAC access controls, and secure IAM with TLS/SSH tunneling and network segmentation.
- Conducted digital forensics and incident response in compliance with legal standards, applying encryption, key management, and containment strategies to ensure traceability, defensible posture, and audit-ready compliance.

11.2013 – 04.2015 **Scientific Games (formerly Bally Technologies), Senior Technical Specialist**

*Technical Training and Documentation Department
Las Vegas, NV | 100% Onsite*

- Developed and deployed the company's first internal training portal.
- Implemented Nevada Gaming Control Board and New Jersey Division of Gaming Enforcement security protocols, documenting and distributing field operating procedures.
- Developed and published the technical field service videos for Bally Technologies, WMS, and Shufflemaster products, including slot machines, card shufflers, roulette machines, and video poker systems, reducing travel-related training costs by 95%.

- 05.2008 – 09.2009 **British Telecom (formerly Infonet), Senior Network Event Management Technician**
Network Operations Center | Network Event Management Center | Global Converged Services, Network Event Management Center
El Segundo, CA | 100% Onsite
- Managed incident response for OSI L1-3 across MPLS & BGP, utilizing Cisco, Juniper, and Alcatel-Lucent platforms.
 - Developed OpenCV-based machine vision automation scripts to reduce incident resolution time from 4 hours to under 10 minutes, leveraging PowerShell and custom algorithms to enhance network monitoring and incident response.
 - Monitored and optimized TCP traffic for L1-L3 network performance on MPLS, BGP, and core platforms (Cisco, Juniper, Alcatel-Lucent), reducing latency with custom TCP optimizations and response time modification techniques.
- 06.2006 – 11.2007 **Synetcom Digital Inc., Junior Electronics Engineer**
El Segundo, CA | 100% Onsite
- Engineered industrial SCADA radios from PCB to application layer as part of the R&D team, including chip-level systems integration, embedded microcontroller development (PLC-to-RF encapsulation over RS-232/Ethernet), and GUI design using C and TKL.
 - Simulated field conditions in the lab to validate reliability and drive iterative improvements.
- 03.2004 – 06.2006 **DeVry University, Academic Tutor, Faculty Assistant & Lab Technician**
Long Beach, CA | 100% Onsite
- Supported academic success and hands-on learning as a faculty assistant and peer tutor in computer science, networking, and electronics.
 - Led one-on-one and group tutoring sessions, graded coursework, and assisted faculty in the advanced development lab—helping students build lab readiness, troubleshoot real systems, and translate theory into working projects.

CONSULTING ENGAGEMENTS

- 12.2021 – 03.2023 **Startup CTO / Technical Consultant**
Alchemy Computing, Dumpt'd (Pre-revenue) — Washington, DC | Remote
- Served as acting CTO for early-stage startup, leading a small engineering team in prototyping network infrastructure and full-stack architecture (Laravel, PostgreSQL).
- 09.2009 – 11.2013 **Technical Consultant (Independent)**
Alchemy Computing — Las Vegas, NV | Onsite
- Delivered IT and network engineering services for SMBs in cosmetics and music production, including website development, malware remediation, and electronics prototyping (under NDA).

PROJECTS

- Homelab 4x Orange Pi micro-cluster running home automation VMs, with a Palo Alto PA-500 and 1Gb PoE Avaya L2 switch for VLAN segmentation and multi-cloud, offsite backup rotation for resilience. Proxmox cluster on Dell R610/R430 servers with Windows Server 2022 AD, DNS, SMB, and Linux dev/security VMs, utilizing a Cisco 1845 ASA for custom network security.

CERTIFICATIONS & TRAINING

CISSP	Certified Information Systems Security Professional International Information System Security Certification Consortium (ISC2) Member ID: 954626 03.2024 - Present
CISA	Certified Information Security Auditor Information Systems Audit and Control Association (ISACA) Member ID: 2063351 11.2024 - Present
Security+	Computing Technology Industry Association (CompTIA) Candidate ID: COMP001022411475, 11.2023 - Present
Technician Class	FCC Amateur Radio License Federal Communications Commission (FCC) Callsign: KF8BVZ 07.2024 - Present
OSCP	<i>Offensive Security Certified Professional (IN PROGRESS)</i> <i>Expected certification: September 2026</i>

EDUCATION

03.2003 – 03.2008	Bachelor of Science in Computer Engineering Technology <i>DeVry University, Long Beach, California</i> Cum Laude, GPA: 3.6
	- Best Senior Project 2008: "Fingertip Effects" (Acoustic Manipulation using Hand Gestures and Machine Vision; Java, C++, Assembly).

SKILLS

Infrastructure & Virtualization

- KVM, ESXi, Hyper-V, BSD Jails | Docker, VMware Workstation, VirtualBox
AWS, Azure, GCP | System Hardening (Debian, Red Hat, SELinux, AppArmor)

Security & Automation

- SIEM, IAM, TLS/x.509, Zero Trust, Network Segmentation
Bash, PowerShell, Python | Jenkins, GitLab CI/CD, IaC Pipelines

Tools & Technologies

- PostgreSQL, Redis, Jenkins | Active Directory, LDAP, Microsoft 365
Cisco IOS, OPNSense, Nmap, Wireshark | VeraCrypt

Programming & Reverse Engineering

- C, C++, Python, Assembly | Java, JavaScript, Ruby
IDA Pro, Ghidra, Radare2 | Exploit Dev, Debugging, Disassembly

COMMUNITY INVOLVEMENT

09.2024 **GrrCON, Event Volunteer**

Grand Rapids, MI

Supported conference operations over three days, assisting with attendee logistics and on-site coordination to support the security community.