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## 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**

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## 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, Protobuff, 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.

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## 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).

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## 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.

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## 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>

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## EDUCATION

03.2003 – 03.2008	Bachelor of Science in Computer Engineering Technology <i>DeVry University, Long Beach, California</i> Cum Laude, GPA: 3.6 <ul style="list-style-type: none"><li>- Best Senior Project 2008: "Fingertip Effects" (Acoustic Manipulation using Hand Gestures and Machine Vision; Java, C++, Assembly).</li></ul>
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## 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

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## COMMUNITY INVOLVEMENT

09.2024	<b>GrrCON, Event Volunteer</b> Grand Rapids, MI Supported conference operations over three days, assisting with attendee logistics and on-site coordination to support the security community.
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