**SUMMARY:**

• Networking, Systems & Cyber Security Engineer with 20 years of experience in the tech industry.

• 10+ years of professional experience in automation, support and development.

• Demonstrated leadership and adaptability, with expertise in mentoring and project delivery.

**EXPERIENCE:**

**IT/OT Infrastructure Administrator, Cyber Security Sep 2023 - Present**

**Great Lakes Water Authority, Operational Technology, Cyber & Information Systems Security**

**Direct-Hire | Onsite to 20% Remote | Detroit, MI**

* **Piloted a credential management system, increasing department-wide password complexity by 8%.**
* **Using TLS 1.3 and xx509 certificates, I helped our team pilot the implementation of DNS for Level 4 and DMZ systems for an over all increased use of encryption on the network by an estimated 10-20%.**
* **Converged legacy IP address datasets into a singular IP Address Management (IPAM) platform for change management utilizing PostgreSQL, Redis and Jenkins web-based technologies. Tested, deployed and automated full lifecycle management using PowerShell and Bash.**
* **Developed and implemented internal malware analysis processes, categorization, forensic incident handling methodologies and built the archival and analytic systems and station image.**
* **Designed and constructed Change Management systems for Active Directory User Groups and Permissions, and a vendor facing Network Change Management system in line with Discretionary Access Control principles.**
* **Conducted three internal assessments for the 2023q4 and 2024q1 periods utilizing each of the AWWA, NIST 800-153 & CSF 2.0 frameworks with cross-domain matching documented.**

**Systems Engineer** ​June 2023 –​ Sep 2023​

Corewell Health, Critical Environment Engineering (CEE)

Contract-to-Hire | Ma-Tech Resources | Onsite to %20 Remote | Grand Rapids, MI

Collaborated with the cross-functional agile train to deploy, provision, and maintain the companies existing and future infrastructure across OSI L1-4.

* Built the production compute infrastructure within a 40% faster than estimated delivery time.
* Provided experienced deployment methodologies using industry best practices.

**Network Engineer (L1)** March 2023 –​ June 2023​

jPeg Design | Research & Development, Deployment, Support & Maintenance

Direct-Hire |100% Onsite | Dundee, MI

* Worked in a 3-person team to design, deploy and maintain small to medium business infrastructure.
* Developed the company’s first inventory, customer, client and installation databases using PostgreSQL, DBeaver & Git.
* Developed in-house password management, reports automation and customer deployment monitoring solutions using Python Scapy, Git on a mixed Azure and AWS cloud infrastructure.

**Freelance Technical Consultant** December 2021 –​ March 2023​

Alchemy Computing, Dumptd | Research & Development, Systems Architecture

Direct-Hire | 100% Remote | Washington DC

Coordinated with Start-Up engineering teams for the prototyping of Laravel built front and PostgreSQL back-end systems in the creation, securing and deployment of company and production infrastructure.

**Biggest project heavily utilized** TomTom & Google Maps API’s, with PostgreSQL for the databases and custom design of use for RFID and QR-Code Programming. Largest clients heavily utilized Juniper and Cisco network equipment.

**Operations Engineer II / Data Center Technician III** December 2018 –​ December 2021​

Google | Engineering Field Services; Server, Network & Hardware Operations

Direct-Hire | 100% On-site | Charleston, SC; Reston, VA

Worked in the 12-member global EFS team covering all deployment architectures for the full-breadth of Google’s production fleet.

* Provided zero loss to five-9 SLO and SLA during the ~400% increase to production load during the Covid-19 outbreak with an 80% reduction in staff.
* Led the GCVE East-Coast deployment project team; completed the project 75% ahead of schedule.
* Built repairs automation software which monitored, configured and automated 80% of server diagnosis, repairs and ticket closure. Measured an 800% decrease in server repair for each region deployed.
* Received 19 Peer Bonuses & 2 Challenge Coins; Commendable Service; Hurricane Dorian & Pandemic Support.

**Skills:** Bash · Bigtable · Protocol Buffers / ProtoBuff · Python · Planet-Scale CI/CD · Borg (aka Kubernetes)

**Network Operations Technician** July 2017​ –​ December 2018​

Switch LTD | Network Operations

Contract-to-Hire | TekSystems | 100% On-site | Las Vegas, NV

Worked in one of the largest datacenters on earth, with customer deployments ranging from 1RU to multi-campus WAN networks.

• Developed automation of email using lexical analysis to automate ticket handling, saving approximately 65% of time spent.

**Skills:** AutoHotkey · BGP · PowerShell · Splunk

**Systems Administrator IV** October 2016​ –​ June 2017​

Pinnacle Community Services | Information Technology

Direct-Hire | 100% On-site | Las Vegas, NV

Worked in an in-home care facilities provider for Elderly and Autistic individuals.

* Developed and migrated internal file-share-system to bring organization into HIPAA compliance.
* Secured the companies trunks using IPsec over GRE on Cisco and Avaya infrastructure.
* Conducted internal digital forensics investigations using the Sleuth toolkit.

**Skills:** Cisco · Windows Server 2012 · Active Directory · Samba · Porteus Linux · Java

**Freelance Technical Consultant April 2016 –​ October 2016​**

**Alchemy Computing | Information Technology**

**Multi-Contract | 100% On-site | Las Vegas, NV**

* **Focused specialties included small to medium business PC Repair, website development, electronics prototyping.**

**Skills: A+ · Malware Removal · Digital Forensics · Data Recovery**

**Technical Specialist II** November 2013​ –​ April 2015​

Scientific Games | Technical Documentation and Training

Direct-Hire | 100% On-site | Las Vegas, NV

* Brought travel expenditures down by 95% through creating training videos.
* Saved 650 labor hours / week through consolidating a spreadsheet-based software tracking system into a single database.

**Skills:**  SharePoint · Arch Linux · PHPFM · Memcached · NGINX · Apache · WordPress · Jekyll · Yammer

**Freelance Technical Consultant** September 2009​ –​ November 2013​

Alchemy Computing | Information Technology | Las Vegas, NV

* Focused specialties included small to medium business PC Repair, website development, electronics prototyping.

**Skills:** A+ · Malware Removal · Digital Forensics · Data Recovery

**Network Event Management Technician III** May 2008​ –​ September 2009​

Infonet - British Telecom | Converged Services Management Center

Contract-to-Hire | TekSystems | 100% On-site | El Segundo CA

Assisted with the internal acquisition of Infonet’s global NOC to the UK’s infrastructure.

• Provided complete coverage over the management platform for OSI L1-3 over a Cisco, Juniper, Alcatel-Lucent & Ciena mixed platform.

**Skills:** MPLS, EIGRP, IGRP, SDH, PDH, ATM Frame-Relay, TCP/IP V4/V6, SIP, ARP, CDP, CARP, EIGRP, OSPF, BGP, VTP, EtherChannel, 802.1Q trunking, QoS, Multicast, 802.11a/b/g/n/ac, IPsec, LDAP, RADIUS/TACACS+, SNMP, NTP, VRF and HTTP/HTTPS

**Junior Electronics Engineer** June 2006​ –​ November 2007​

Synetcom Digital | Research and Development

Direct-Hire | 100% On-site | El Segundo, CA

Worked in the engineering team developing industrial SCADA radios for (in-house developed) industrial video, monitoring digital IO, 4-20ma sensor loops, and PWM.

* Built the GUI for the company’s first PLC user control panel.
* Secured the internal LAN using IPSEC between machines in a mesh LAN topology.

**Skills:** PLCs · PIC Programming · BASIC Stamp Development · Propeller Chip · FHSS · EagleCAD · EWB · Embedded Linux · Windows CE · C++ · Ladder Logic

**Academic Tutor, Faculty Assistant & Lab Technician** March 2004 - June 2006​

DeVry University | Electronics, Network & Development Laboratory

Direct-Hire | 100% On-site | Long Beach, CA

Tutored students in the network security and advanced micro peripheral courses. Focused specialties included:

* Cisco CLI commands, interfacing and scripting.
* Implementing network configurations with Java
* Network Packet analysis

**Skills:** C++ · Java · Wireshark · Cisco · Novell · Windows 2000 Networking · RedHat Linux · Gentoo · TCP/IP Packet Optimization

**EDUCATION:**

(IN PROGRESS) M.S.C.S. Data Science and Intelligent Systems (PROJECTED) December 2025

University of Tennessee, Knoxville (ONLINE) Knoxville, TN

B.Sc. Computer Engineering Technology, Cum Laude, GPA: 3.6 March 2008​

DeVry University, Long Beach Long Beach, CA

* Best Senior Project, 2008, “Fingertip Effects”. Machine vision Java, C++ & Assembly application.
* Associated Student Body President, Spring 2005 – Fall 2005, Spring 2006-Fall 2007

**CERTIFICATIONS/PUBLICATIONS/PROFESSIONAL ASSOCIATIONS:**

CISSP / Certified Information Systems Security Professional

International Information System Security Certification Consortium, ISC2, Member ID: 954626

Active as of: March 2024

SEC+ / Security+

Computing Technology Industry Association, CompTIA, Candidate ID: COMP001022411475

Active as of: December 2023

ISACA Member

Information Systems Audit and Control Association, ISACA, Member ID: 2063351

Active as of: August 2024

Amateur Radio Technician Class License

Federal Communications Commission, FCC, Callsign: KF8BVZ

Active as of: July 2024

**SKILLS:**

* Languages: C, C++, Java, Shellcode, LaTeX, PowerShell, CSS, JavaScript, Ruby, Python, Assembly
* Type I Hypervisors: Hyper-V, KVM, ESXi, BSD
* Type II Hypervisors: Docker, VirtualBox, VMWare
* Cloud Environments: Azure, Google Cloud Platform, Amazon / AWS

**PROJECTS:**

"Homelab"

VM Environment on ProxMox, w/ TrueNAS. ~40 vms for applications testing and development. Windows AD 2019, w/ Self-hosted PiHole DNS, OPNSense (dual) firewalls, w/ Monero full-nodes. No mining (yet).

Machines: Cisco 1841, Palo-Alto PA-500, MacMini, Windows 10 Pro (AD & PowerShell).

"Cyboard" - Longboard Security System and Datalogger

Raspberry Pi "Smart skateboard", with on-device weather detection, key fob, motion and GPS.

Technologies: Python, SQLLite, GPS PA1616S, Raspbian, NeoPixel LED, Remote Control Encoder PT2262, SHT30 Sensor, ADXL343 - Triple-Axis Accelerometer

**VOLUNTEER/LANGUAGES/AWARDS:**

Languages: Studying Spanish, German (Pre-A1) and Portuguese, Awards: Best Senior Project 2008.