**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, problem-solving and adaptability with expertise in mentoring, training 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%.
* Implemented TLS 1.3 authentication for an increase of authenticated sessions by over 12%.
* Designed, developed and deployed an Internet Protocol Address Management (IPAM) platform on PostgreSQL, Redis and Jenkins web-based technologies.
* Built and tuned an internal SIEM; to provide increased visibility into network related events.
* Developed and implemented internal malware analysis processes, categorization and archival systems.
* Designed and constructed an internal Change Management system for production related changes.
* Conducted the 2023q4 and 2024q1 internal security audits in preparation for the Quantitative Risk Assessment utilizing the AWWA, NIST 800-153 & CSF 2.0 frameworks.

**Skills**: PowerShell · ReST API · AD Administration · x509 · tcpdump · nc · nmap · Nessus NASL · SCADA

**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 through providing experienced deployment methods using industry best practices.

**Skills:** Industrial PME · DCIM

**Network Engineer**  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.
* Developed in-house automation software, including password management and deployment monitoring software.

**Skills:** PostgreSQL · Python · Git · Azure · AWS · MoIP · Cisco CLI

**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 front and back-end systems in the creation, securing and deployment of company and production infrastructure.

**Skills:** Laravel · PHP · TomTom API · Google Maps API · Ansible · Python · MoIP· VoIP· Cisco CLI· Juniper · PostgreSQL · RFID · QR-Code Programming

**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 project team which deployed 1/3 of the GCVE infrastructure in which we were able to complete the project 75% ahead of schedule.
* Built and deployed BASH, Python C code, Kubernetes-based software systems which monitored, configured and effectively automated 80% of my original job functions, including automated ticket diagnosis, repair tasking, and ticket closure. Measured an 800% decrease in repairs for the regions in which this software ran.
* Received 19 Peer Bonuses and 2 Challenge Coin Awards; Commendable Service during Hurricane Dorian, and same during 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 customers ranging from 1RU to multi-campus deployments.

• Developed scripting combined with email lexical analysis to automate ticket handling saving approximately 65% of time.

**Skills:** AutoHotkey · BGP · PowerShell

**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

Direct-Hire | 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· Markdown · Yammer

**PRIOR EXPERIENCE:**

British Telecom, El Segundo, CA - Network Operations Center - **Network Event Management Technician**

Synetcom Digital, Torrance, CA - Research and Development - **Junior Electronics Engineer**​

DeVry University, Long Beach CA - **Electronics and Development Lab – Academic Tutor & Faculty Assistant**

**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

**VOLUNTEER/LANGUAGES/AWARDS:**

Languages: Studying Spanish, German (Pre-A1) and Portuguese

Awards: Best Senior Project 2008.