Justin Knox, BSc, CISA, CISSP

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SUMMARY

Network & Cybersecurity Professional with 20 years of experience in the tech industry, specializing in automation, technical support, and system development.

EXPERIENCE

Cybersecurity Analyst
DTE Energy, S3, Gas Operational Technology, Cyber & Information Systems Security
Detroit, MI | Onsite to 40% remote
October 2024 – Present
- Executed cybersecurity sustainment operations aligned with TSA SD2 frameworks, enhancing compliance and system resilience.
- Collaborated with cross-functional teams and stakeholders to design and implement a secure internal communications infrastructure, ensuring seamless network engineering functionality.

IT/OT Infrastructure Administrator, Cyber Security
Great Lakes Water Authority, Operational Technology, Cyber & Information Systems Security
Detroit, MI | Direct-Hire | Onsite to 20% Remote
September 2023 – October 2024
- Leveraged AWWA, NIST 800-153 & CSF 2.0 frameworks to further develop the policy, risk management, and best practices as it applies under the OT landscape.
- Worked closely with the field technicians and provided deployment support, troubleshooting and database administration in a multi-vendor DCS and SCADA system deployment architecture.
- Piloted TLS 1.2 and x509 certificates for application encryption for the DMZ systems.
- Integrated legacy IP datasets into a unified IPAM system using PostgreSQL, Redis, and Jenkins.
- Automated server lifecycle management using PowerShell and Bash.
- Generated custom reporting utilities utilizing PowerShell within the Windows AD environment.
- Developed Cisco network analysis tools and M365 Change Management tools for Active Directory.
- Improved password complexity in credential management by 8%.

Systems Engineer
Corewell Health, Ma-Tech, Critical Environment Engineering (CEE)
Grand Rapids, MI | Onsite to 20% Remote
June 2023 – September 2023
- Built and deployed production infrastructure 40% faster than projected timelines.

- Applied industry best practices for optimized deployment methodologies.

Network Engineer
jPeg Design
Dundee, MI | 100% Onsite
March 2023 – June 2023
- Deployed Layer 1-3 network infrastructure, security systems, and physical access controls.
- Developed in-house password management and monitoring tools using Python and Scapy on AWS/Azure.

Technical Consultant, Startup CTO
Alchemy Computing, Dumpt'd
Washington DC | 100% Remote
December 2021 – March 2023
- Led engineering team for network infrastructure deployment and Laravel/PostgreSQL prototyping.
- Provided network engineering support for Juniper-based AMEA networks.

Operations Engineer II / Data Center Technician III
Google
Charleston, SC; Reston, VA | Direct-Hire | 100% Onsite
December 2018 – December 2021
- Led the GCVE East-Coast deployment project, completing 75% ahead of schedule.
- Developed automation software to streamline server repairs, resulting in 800% efficiency gains.
- Awarded 19 Peer Bonuses and 2 Challenge Coins for exemplary work during Hurricane Dorian and the pandemic.

Network Operations & Data Center Technician
Switch LTD
Las Vegas, NV | 100% Onsite
July 2017 – December 2018
- Conducted security audits and physical pen-testing for large-scale customer deployments.
- Automated ticket handling using PowerShell and AutoHotKey, reducing processing time by 65%.

Systems Administrator IV
Pinnacle Community Services
Las Vegas, NV | 100% Onsite
October 2016 – June 2017
- Implemented HIPAA-compliant security solutions including firewalls and encrypted storage.
- Conducted digital forensics investigations in compliance with legal standards.

Technical Consultant
Alchemy Computing
Las Vegas, NV | 100% Onsite
April 2016 – October 2016
- Provided IT services including network design, virtualization, and electronics prototyping for SMBs in legal and financial sectors.

Technical Specialist II
Bally Technologies, Scientific Games
Las Vegas, NV | 100% Onsite
November 2013 – April 2015
- Built the company's first internal training portal, reducing travel costs by 95%.

Technical Consultant
Alchemy Computing
Las Vegas, NV | 100% Onsite
September 2009 – November 2013
- Provided IT and network engineering services including website development and malware removal for SMBs.

Network Event Management Technician III
Infonet, British Telecom
El Segundo, CA | 100% Onsite
May 2008 – September 2009
- Managed incident response for OSI L1-3 on MPLS & BGP, Cisco, Juniper & Alcatel-Lucent platforms.

Junior Electronics Engineer
Synetcom Digital
El Segundo, CA | 100% Onsite
June 2006 – November 2007
- Worked in the R&D development group to develop industrial radios from the PCB level up to the application and GUI level, including software development, testing and deployement.
- Wrote the embedded microcontroller software to interface with the PLC, and encapsulate the data to be sent over the serial and ethernet radios.
- Conducted systems integration for the different chips on the system.
- Developed the GUI using the C libraries and TKL that was available at the time.
- Developed the testing conditions in the lab to recreate field conditions and generate root-cause analysis findings for incremental improvements.

Academic Tutor, Faculty Assistant & Lab Technician
DeVry University
Long Beach, CA | 100% Onsite
March 2004 – June 2006

EDUCATION

BSc Computer Engineering Technology
DeVry University
March 2008 | Cum Laude, GPA: 3.6
- Best Senior Project 2008: "Fingertip Effects" (Machine Vision with Java, C++, Assembly).

CERTIFICATIONS & ASSOCIATIONS

- **CISSP | Certified Information Systems Security Professional |** International Information System Security Certification Consortium (ISC2)
  Member ID: 954626 | Active as of: March 2024
- **CISA | Certified Information Security Auditor** | Information Systems Audit and Control Association (ISACA)
  Member ID: 2063351 | Active as of: November 2024
- **Security+** | Computing Technology Industry Association (CompTIA)
  Candidate ID: COMP001022411475 | Active as of: December 2023
- **FCC Amateur Radio Technician Class License** | Federal Communications Commission (FCC) | Callsign: KF8BVZ | Active as of: July 2024

SKILLS

- **Languages:** C, C++, Java, JavaScript, LaTeX, PowerShell, Ruby, Python, Assembly
- **Type I Hypervisors:** Hyper-V, KVM, ESXi, BSD
- **Type II Hypervisors:** Docker, VirtualBox, VMWare
- **Cloud Platforms:** AWS, Azure, GCP
- **Tools:** PostgreSQL, Redis, Jenkins, PowerShell, Bash

PROJECTS

"Homelab"
- Palo-Alto PA-500 FW, ProxMox VM environment w/ TrueNAS, PiHole DNS, OPNSense firewalls.

"Cyboard" - Longboard Security System and Datalogger
- Raspberry Pi smart skateboard with GPS, motion detection, and data logging using Python, SQLLite.

VOLUNTEER WORK / LANGUAGES

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