

Justin Knox, BSc, CISA, CISSP

+1 (313) 451-6151 | justintknox@icloud.com | <https://jknox.b3x9.com>

SUMMARY

Network & Cyber Security Professional with 20 years of experience in the tech industry, specializing in automation, support, and development. Proven leadership, adaptability, and mentoring skills with a strong focus on cybersecurity and project delivery.

EXPERIENCE

Cybersecurity Analyst

DTE Energy, S3, Gas Operational Technology, Cyber & Information Systems Security

Detroit, MI | Onsite to 40% remote

September 2024 – Present

- Conducted Cybersecurity sustainment operations for implementations of the TSA SD2 frameworks.
- Supported the deployment and development of the internal patch management system for applications, drivers and firmware.
- Coordinated with integrated business units and stakeholders to develop an internal communications infrastructure to provide secure 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 – September 2024

- Leveraged AWWA, NIST 800-153 & CSF 2.0 frameworks to enhance cybersecurity infrastructure.
- Piloted TLS 1.2 and x509 certificates for DNS encryption across Purdue Level 4 and DMZ systems.
- Integrated legacy IP datasets into a unified IPAM system using PostgreSQL, Redis, and Jenkins.
- Automated server lifecycle management using PowerShell and Bash.
- 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.

Freelance 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.

Freelance 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%.

Freelance 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

- Assisted in the development of industrial SCADA radios and implemented AES-128 encrypted radio links.

Academic Tutor, Faculty Assistant & Lab Technician

DeVry University

Long Beach, CA | 100% Onsite

March 2004 – June 2006

- Tutored students in network security and micro peripheral courses.
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EDUCATION

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

University of Tennessee, Knoxville

Projected: December 2025

B.Sc. 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, Shellcode, LaTeX, PowerShell, Ruby, Python, Assembly
- **Type I Hypervisors:** Hyper-V, KVM, ESXi, BSD
- **Type II Hypervisors:** Docker, VirtualBox, VMWare
- **Cloud Platforms:** AWS, Azure, GCP
- **Security Frameworks:** AWWA, NIST 800-153, CSF 2.0
- **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, SQLite.

VOLUNTEER WORK / LANGUAGES

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