

Casey Sparks

EDUCATION AND TRAINING

Carnegie Mellon University, Heinz College

Chief Information Security Officer (CISO) Certificate

2021

AWS Certified Cloud Practitioner (CCP)

2022

EXPERIENCE

Tau Motors

October 2023–Present

Business Operations Lead — IT, InfoSec, DevOps

- Ported all existing cloud infrastructure to continuously deployed Terraform configurations.
- Migrated existing Windows 10 server infrastructure to Ansible-managed bare-metal Debian environment.
- Increased DevOps test coverage from 0% to 100% in under six months, maintaining 100% coverage to date.
- Implemented CI/CD pipelines via Github Actions for: software testing, Terraform-managed cloud infrastructure.
- Migrated non-heirarchical, single-site Sonicwall network to segmented pfSense+Mikrotik LAN spanning multiple IPsec-connected offices with active load-balancing on highly available WAN gateways.
- Authored and implemented information security policies in order to achieve TISAX ISMS certification in under seven months.
- Implemented MDM, IdP, and EDR, bringing previously unmanaged accounts and systems under management in compliance with new security requirements.

Prime Trust

September 2019–October 2023

Director of Information Technology

- Hardened and brought end-user Linux devices under management via Ansible in compliance with information security policy and CIS benchmarks.
- Wrote custom softwares to automate hardware inventory lifecycle management and helpdesk reports.
- Worked with executive officers to design, and coordinate the construction of, a 40-thousand square foot office space, deploying multiple Crestron conferencing systems and a Cisco Meraki LAN.
- Reduced operational expenditures by migrating existing IdP, password manager, file server, and payroll systems supporting 400 employees to new services in under six weeks without disrupting business operations.
- Provided 24/7 on-call service to executive officers for both IT systems and security incident remediation.

DevOps Engineer

- Worked with Product and Engineering teams to manage production deployments and releases in line with the company SDLC.
- Assisted as subject-matter expert in relevant IT and cryptography domains during ISO and SOC certifications and audits.
- Wrote internal tooling and automation to improve team velocity.
- Ported and packaged third-party EDR software to provide compatibility with previously unmonitored Linux hosts.

System Administrator

- Implemented and maintained on-premise, ELK and Asterisk Linux servers via Ansible.
- Migrated Active Directory MDM, password manager, and payroll systems to cloud-based services.
- Wrote, implemented, and provided subject-matter expertise in information security policies, assisting the company in achieving an ISO 27001 certification in 2021 and SOC2 in 2022.
- Migrated existing Fortigate hardware to Cisco Meraki appliances with no network downtime during business hours.
- Reduced network penetration test findings by 80% after initial engagement.

TECHNICAL SKILLS AND EXPERTISE

- **Systems and Languages.** Linux (RHEL, Debian, Alpine, Arch), FreeBSD, OpenWrt. Python, HCL, Shell (bash/sh).
- **Networking and Cloud.** AWS, Azure, Heroku, Cisco Meraki, Fortigate, pfSense, MikroTik.
- **Policy and Certification.** ISO 27001, SOC2, TISAX.
- **Containerization, SCM, and Configuration Management.** Docker, Git, Github Actions, Ansible, Terraform.