ALEXANDER BAKER

Bachelor Of Computer Science: Cybersecurity

Bachelor of Computer Science conducting independent research and utilizing a home-lab to better understand industry best practices. Seeking full-time employment related to systems administration, network engineering, and cybersecurity.

Education

2019-08-2023-05

BACHELOR OF SCIENCE: INFORMATION ASSURANCE & CYBERSECURITY
Tennessee Tech University - Cookeville, TN
- Concentration: Cybersecurity and Information Assurance
- High Flyers Academic Scholarship recipient
- Y-12 Bill Hickman Scholarship recipient
- CrowdStrike Cyber Security Scholarship recipient

Work History

2023-05-2023-11

HPC SECURITY - CO-OP
UT-Battelle, Oak Ridge, TN
- Utilized Syzkaller to conduct Linux kernel fuzzing and identify bugs that affect the Frontier and Summit supercomputers.
- Collaboratively developed a patch for the pkpass password manager, allowing it to be used with the latest version of python.
- Analyzed the level of entropy in trained AI models to identify significant features in training datasets.

2022-05-2022-08

SOFTWARE DEVELOPER - INTERN
Fast Enterprises, Montgomery, AL
- Developed new features for Alabama Law Enforcement Agency Driver License System (Known as LEADS).
- Assisted in troubleshooting and debugging existing features in Alabama LEADS application.
- Created a new reporting system that automates required disclosure of driving infractions for 50+ employees.

2022-01-2022-04

CYBER SECURITY UNIT - INTERN (REMOTE)
Alliance Bernstein, Nashville, TN
- Increased network security by patching existing vulnerabilities in Juniper and FortiNet firewalls.
- Maintained complex WAN by creating internal and external firewall rules according to company needs.
- Collaborated remotely with teams from 3 different countries and time zones.

2021-05-2021-08

IMPLEMENTATION - INTERN
Yanfeng Automotive Interiors, Fountain Inn, SC
- Developed an operating system for over 50 thin clients.
- Configured long term storage solution for 20+ security cameras
- Programmed an automated tracking system for thin clients.
- Letter of recommendation available upon request.

2018-08-2019-05

SECURITY ANALYST - INTERN
Sword And Shield Enterprise Security, Knoxville, TN
- Utilized Nessus to scan for vulnerabilities on client networks.
- Prepared equipment for client security audits.
- Prepared client reports by organizing vulnerability data from penetration tests.

CONTACT

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Technical Skills

- Server Management: Experience imaging and configuring servers
- Virtual Networking: VLAN Management and Network Segmentation
- Experience with PfSense, OpenWRT, FortiNet, and Juniper firewalls
- Virtualization: Configuring critical virtual machines Virtualbox, VmWare ESXI, and ProxMox
- Object Oriented Programming: Experience in Python, Java, C++, Robot C
- Comp TIA Certified, IT Fundamentals
- Amateur Radio Operator, Technician License, KO4GPF

Extracurricular Activities

- Tennessee Tech Offensive Cyber Interest Group Lead 2023
- Member of Cyber Eagles 2022 Collegiate Penetration Testing Competition Team
- Team lead for Tennessee Tech Battle Bots competition team.

Projects and Hobbies

- Visit www.alexpro.net for resume updates and project documentation.
- Utlizing my home-lab to configure and conduct research on corporate style networks.
- Hosting websites, game server, databases, file servers, etc. for myself and others.
- Competing in Cyber-Security CTF challenges.