Tyler Harrison

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I am Tyler Harrison, a driven tech professional with a passion for solving complex problems. Experienced in software development with a strength in cybersecurity. Seeking opportunities to apply skills, work with a team, and make a positive impact. Confident in ability to succeed and make a difference.

Skills

`programming` `devops` `databases` `containers` `linux systems administration` `webservers` `project management` `system architecture & design`

Programming: Python, C, C++, Java, Javascript, HTML (React, Svelte), CSS (Tailwind), Flask

Databases: MySQL, Postgres, sqlite, CosmosDB, ElasticSearch

Linux: Alpine, Ubuntu, Debian, Fedora, Kali, Parrot, Tails, Proxmox

DevOps: Docker, Ansible, Kubernetes, GitHub, GitLab, Azure

Experience

Junior Software Developer | Junior Security Analyst | Student Leadership, TAMUS - Cybersecurity Operations Center

2021-Present, College Station, TX and remote

- Prevented, detected, investigated, monitored, and responded to cybersecurity threats and incidents across stakeholders.
- Monitored and analyzed activity on networks, servers, endpoints, databases, applications, websites, and other systems.
- Developed in-house and open-source software to power critical infrastructure and make workflow possible. This includes:
  - Complex data ingestion pipelines using Logstash, Elastic, and Kibana, Service Bus, Cosmos DB, Docker and Python
  - Central logging and alerting system using Grafana, Prometheus, and Loki
  - Data enrichment and analysis tools using Python and Docker
  - Wrappers and connectors for various APIs and services
  - Stakeholder database to power enrichment and analysis tools
  - Web toolkit to assist analysts in their daily tasks
  - Workflow automation tools to improve efficiency and reduce alarm fatigue
- Managed and maintained the SOC's infrastructure, including servers, networking, and hypervisors.
- Created the current training program and led the training and development of new analysts.
- Developed and maintained a knowledge base for students and staff to learn and share knowledge.
- Collaborated with stakeholders to develop and implement policies and procedures for the SOC.
- Performed vulnerability assessments for our stakeholders.

Technologies used: Elastic, Kibana, Logstash, Azure Service Bus, Python, Docker, Cosmos/NoSQL, Proxmox (KVM and LXC), Flask, Jira, Confluence, Slack and others.

Security Consultant, Texas Alcoholic Beverage Commission

2022, Austin, TX

- Performed physical and virtual vulnerability assessments on a variety of systems including servers, workstations, and IoT devices
- Engaged in social engineering to gain access to systems
- Developed custom tools and scripts to automate the assessment process
- Presented findings to TABC IT staff

Vulnerability Assessor, Confidential

2022, College Station, TX

- Performed vulnerability assessments on a variety of wearables, IoT devices, and other embedded systems
- Designed and 3D printed custom hardware to assist in the assessment process
- Presented findings to stakeholders

Systems Administrator, TAMU - Commerce RELLIS Cyber Range

2020-2023, College Station, TX and remote

- Built the RELLIS Cyber Range from the ground up, including the architecture of server hardware, networking, and hypervisor
- Implemented custom software solutions, such as a web frontend, to manage and maintain the range
- Managed lab development, maintenance, and student support while ensuring compliance with policies and regulations
- Provided technical support and user management to students and staff
- Developed and maintained a knowledge base for students and staff to learn and share knowledge
- Collaborated with the CISO to develop and implement policies and procedures for the range
- Performed penetration testing and vulnerability assessments on the range and its infrastructure

Technologies used: Proxmox, KVM, LXC, Docker, Ansible, Python, Flask, React, Tailwind, Alpine, Ubuntu, Debian, Kali, GitHub, GitLab, Jira, Confluence, and Slack.

Systems Controls Engineer, Technology Student Association

2018-2019, College Station, TX

- Analyzed complex problems and developed hardware/software solutions in a short amount of time
- Formed and managed a team of students as Technical Lead
- Presented at the National TSA Conference in Fort Worth, TX
- Programmed in C for embedded systems/microcontrollers

Technologies used: C, Arduino, Raspberry Pi, Linux, Git, and GitHub.

Mentor, FIRST Robotics Competition

2018-2022, Richmond, TX

- Mentored high school students in the design, construction, and programming of large robots
- Assisted students in the programming of their robot using Java and LabVIEW
- Assisted with designing unit tests, user interfaces and passing safety inspections.

Technologies used: Java, LabVIEW, Arduino, Raspberry Pi, Linux, Git, and GitHub.

Awards & Recognition

- Texas A&M University Commerce - President's List (2021, 2022, 2023)
- Texas A&M University System - Employee of the Semester (2022)
- Texas A&M University CTF $2,500 Scholarship (2022)
- Blinn College Dean's List (2020, 2021)
- Blinn College Award of Appreciation (2021)
- Texas A&M University - Commerce Academic Honors (2021, 2022)
- Technology Student Association - Systems Controls Finalist (2018)
- FIRST Robotics Competition Semifinalist (2016-2018)
- Hewlett-Packard CodeWars Top Novice Team (2017)

Current Projects

RELLIS Cyber Range (2021-2023)

- Maintaining a cyber range for students to learn and practice cybersecurity skills in a safe environment. These skills include penetration testing, malware analysis/development, and more.

Personal Knowledge Base (2023-present)

- A personal knowledge base for myself and others to learn and share knowledge about cybersecurity and technology.

Education

Texas A&M University - Commerce @ RELLIS

- BS Computer Science and Information Technologies (2021-2023)
- GPA: 4.0

Texas A&M University - College Station

- CompTIA Security+ (2023-In Progress)
- Awarded free course and voucher by TAMU Cybersecurity Center for "outstanding research"

Blinn College @ RELLIS

- AS Computer Science and Information Technologies (2018-2021)
- GPA: 3.65

Texas A&M University - College Station (2018-2019)

- Engineering Academy

References

Available upon request.