Cullen Kelley

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EDUCATION

Masters of Applied Information Technology, Cyber Security Concentration Aug. 2024 – Dec. 2025
George Mason University *Fairfax, VA*
Bachelor of Applied Science, Cyber Security Concentration Aug. 2021 – Aug. 2024
George Mason University *Fairfax, VA*

EXPERIENCE

Software Security Consultant (3 month consulting position) Jun. 2024 – Aug. 2024
Affinity DB *Leesburg, VA*
- Conducted a code security review of numerous Python, VBA, and Typescript based applications written by third party contractors prior to production integration
- Created application documentation and a writeup documenting the review process and sharing findings with stakeholders
- Utilized many security tools including IDA, x64dbg, oletools, and DidierStevensSuite MS tooling

eCommerce Department Manager and Trainer Sep. 2020 – Jun. 2024
Safeway *Great Falls, VA*
- Promoted from entry position eCommerce shopper within six months of hire date due to exceptional performance and implemented improvements to department operations
- Led department operations of a small team ensuring timely delivery of online orders
- Launched eCommerce departments across Washington metropolitan area
- Independently produced training materials for on-boarding employees

PROJECTS

Rust Language Development | *Rust development* Feb. 2024 – Oct. 2024
- Working with professor Kun Sun on potential improvements to the unsafe Rust keyword
- If successful changes may be implemented into the Rust programming language

Malclass | *C, Python, Ghidra API, VirusTotal API, PostgreSQL, Git* Dec. 2024 – Present
- Ongoing complete refactoring of the original PE-Trainer malware classification project
- Using lessons learned from PE-Trainer Malclass features improved ingestion techniques and provides rough analysis of malware behavior via Ghidra API

PE-Trainer | *Python, Rust, Scikit-learn, MariaDB, VMware Workstation, Google CCE, Git* Aug. 2024 – Dec. 2024
- Developed a framework and ingest pipeline for supervised malware detection for PE files targeting Windows
- Utilized over 200GB of malware samples for training data
- Achieved a malware classification accuracy of 94 percent with k-folded random forest
- Authored a research paper showcasing research findings
- Visualized GitHub data to show collaboration

Cloud Security Risk Report | *Google Colab* Aug. 2024 – Dec. 2024
- Created a comprehensive report and presentation on induced security risks inherent to the cloud service model
- Applied industry research in addition to NIST (SP) 800-210
- Final project for graduate class AIT670 - Cloud Computing Security

Personal Cybersecurity Lab | *Suricata, Splunk, Docker, VMware Workstation* Feb. 2023 – Present
- Implemented a comprehensive SIEM (Security Information and Event Management) and SOAR (Security Orchestration, Automation, and Response) system for personal penetration testing projects
- Used for HackTheBox hacking labs and CTF events

TECHNICAL SKILLS / ACCREDITATION / AWARDS

Certifications: Google Cybersecurity Professional Certificate, Security+ (pending exam in Dec)
Languages: Rust, C, Python, PowerShell, SQL, VBA
Security Tools: Suricata, Splunk, Nessus, nMap, Ghidra, IDA Pro, FireEye FLOSS, x64bdg, Autopsy, FTK Imager
Developer Tools: Git, Docker, Google Cloud Platform, Vim, Visual Studio
Other: Eagle Scout, Scouting Heroism Award