Abby L. Farrell

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Education

Purdue University – Main Campus   **West Lafayette, IN**
Bachelor of Science in Cybersecurity - Expected Graduation: December 2024   July 2020 - Present

Relevant Coursework:
- Incident Response Management - Designed enterprise-level incident response plans. Analyzed information systems to detect common attack techniques and anomalies; applied results of causal analysis to implement continuous process improvement.
- Vulnerability Analysis And Testing - Learned Burp Suite, Metasploit, GoBuster, NMAP, and Wireshark to test the security of computer networks, infrastructure, and applications. Created secure network environments based on specifications.
- Other Coursework – SQL Database Fundamentals in Oracle, Java Object-Oriented Programming, Bash Scripting Unix Administration, Foundations of Homeland Security, Network Security, Cyber Forensic Methodologies

Professional Experience

Land O'Lakes inc.   **May 2024 - Aug 2024**
Cyber Security Intern - Security Operations Center   Arden Hills, MN
- Executed comprehensive threat hunting during a red-team-blue team engagement, thoroughly analyzing a network of Linux servers to detect and interpret attack patterns. Documented red team activities to enhance the company's defensive strategies.
- Utilized Crowdstrike, Reliaquest, and Defender to monitor +11,000 endpoints through incidents and alerts utilized CyberChef.
- Created a defense-in-depth diagram based on SOC tech stack for upper-level executives, identifying and addressing critical security gaps to enhance the organization's overall security posture while communicating technical concepts at a high level.
- Comprehensively identified +300 MITRE ATT&CK techniques leveraged by Microsoft Defender, ensuring full coverage.
- Built the groundwork for a vulnerability automation script using Tines (SOAR) and AI to efficiently present CVE information via webhook and API using JSON. Saved the company approximately 7 hours per week by automating such processes.

Progressive Insurance   **May 2023 - Aug 2023**
Network Data Engineer Intern   Mayfield, OH
- Solved issues by communicating directly with non-technical internal customers at +150 remote offices while on call.
- Successfully resolved +250 highly technical support tickets, effectively addressing critical issues such as extensive network outages, fiber cable malfunctions, network failures in company offices, and disruptions in data center operations.
- Identified issues with Cisco routers and switches, and properly restored downed systems in a timely manner.

Transaction Data Systems Clinical   **May 2022 - Aug 2022**
Information Technology Intern   Orlando, FL
- Spearheaded the transition from Zendesk to Jira Service Desk for the company's IT service software. Increased ticket resolution efficiency by 50%, resulting in significant time savings of hours per week by streamlined support tickets.
- Conducted reconnaissance on Windows/Linux servers to support the initial stages of a penetration test in Medical Services.
- Served as Scrum Master, leading agile teams through sprint planning and daily stand-ups, ensuring timely project completion while enhancing skills in agile methodologies, team collaboration, conflict resolution, and problem-solving.

Leadership and Involvement

Lionfish Cybersecurity   **Aug 2024 - Present**
Cyber Security Instructor/Cyber Sentinel   Remote
- Instructed a class of +20 high school students on diverse cybersecurity concepts, including Virtualization and Cloud Computing, Hardware, and Network Troubleshooting, etc., preparing them for the CompTIA A+ Core 1 and 2 exams.

Ethical Hackers of Purdue   **Jan 2023 - Present**
Founder/President/Old Master   West Lafayette, IN
- Discovered and exploited vulnerabilities in systems on Hack The Box each week. Led the instruction of cybersecurity methodologies to new technical and non-technical members; the club specialized in Linux and Windows environments.
- Developed and implemented a comprehensive leadership strategy to effectively organize a 10-person leadership team, delivering technical and professional experiences to +800 students. Gained valuable insights into conflict resolution and advanced leadership skills through addressing disagreements and managing diverse team dynamics.

Projects

Raspberry Pi Python Project - *Python/Java LED Light Strip*   **Aug 2024 - Sept 2024**
- Programmed a Raspberry Pi to interact with the firmware of a LED light strip using a 1D matrix in Python and the Rasbian operating system. Overcame installation errors and developed ways to optimize the program for future projects.