Miles Franck

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Back Ground

Recent software engineering graduates seeking an opportunity to gain hands-on experience, learn from real-world challenges, and grow within the cybersecurity field. Currently pursuing CompTIA Security+ certification to deepen my knowledge of core security principles.

EDUCATION AND HONORS

- Bachelor of Software Engineering Allegheny College (May 2025)
- *Allegheny College Trustee Scholarship* Recipient (2021-2025)
- *Dorothy Curry Isherwood '21 and James E. Isherwood '20 Scholarship* Recipient (2022-2024)

Certificates

- CompTIA Security+ (Expected: May 2025)
- SOC Operations Analyst II (Live Operations**)**, BCR Cyber (12/4/25)
  - Executed live-fire cyber range exercises focused on incident response and threat mitigation.
- SOC Operations Analyst I (Fundamentals), BCR Cyber (11/26/25)
  - Curriculum: Security Frameworks, Linux/Cisco CLI, Network Architecture (OSI Model, VLANs), Cryptography, AppSec, and SIEM log analysis

TECHNICAL SKILLS

Programming Languages & Tools: Python, Git, WSL, Shodan,
Security Risk Mitigation: Vulnerability Databases (CVE/CPE)
Software Development: Agile/Scrum
Data & Databases: MySQL, Postgres
Security Tools: Splunk, Palo Alto, Wireshark
Projects

- Automated Threat Modeling & Vulnerability Analysis Tool: Developed an automated threat modeling tool in Python that analyzes Shodan data to identify and prioritize vulnerabilities, generating theoretical attack path reports to guide defensive efforts.
- File-Wiping Tool: Created a secure deletion tool using data sanitization best practices.
- Currently developing a network asset discovery tool using nmap
- Gator Grader: Contributed to my college's grading system, developed the xml patterns that the program uses to find specific requirements set by professors.
- GitHub: MilesF25 (Miles)
- Website: https://milesf25.github.io/First-Website/webpage/htmlpages/homepage.html

PROFESSIONAL EXPERIENCE

Carnegie Mellon University, Heinz   2023-2025
College Summer IT Program

- Earned paid residential Fellowship.
- Participated in a hands-on IT and cybersecurity program, tackling real-world technical challenges.
- Gained experience in system architecture, security solutions, and project management through collaboration with industry professionals.
- Developed criteria for evaluating GRC tools and compared leading platforms to find the best fit for compliance and risk management needs

Computer Science Department,   2023-2025
Allegheny College
Technical Leader
- Provided assistance to the professor during lectures and lab sessions by facilitating student engagement and addressing individual queries.
- Provide dedicated time outside of class for one-on-one or small group sessions with students.
- Supervised laboratory sessions to ensure students understood the experiments and used the equipment safely and effectively.

NaviGator, Allegheny College   2023-2024
Success Coach
- Provided one-on-one coaching sessions or facilitated accountability groups for first-year students transitioning from high school to college.
- Helped students develop and apply effective learning strategies, fostering self-regulated learning habits.
- Referred students to relevant campus resources, including academic advising, career counseling, personal counseling, tutoring, and extracurricular involvement.