

Emma McClung
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Personal Summary

Cybersecurity graduate with hands-on experience in vulnerability assessment, threat mitigation, network security, and compliance frameworks (NIST, PCI-DSS). Skilled in automating system administration workflows and configuring secure multi-OS virtualized environments.

Skills

Security & Assurance: Threat Intelligence & Defense, Identity & Access Management (IAM), Information Assurance & Compliance, Incident Response, Cryptography, Vulnerability Assessment

Systems & Networking: Cloud Networking, Server Virtualization, Network Security & Systems Administration, Configuration Management

Programming & Scripting: Python, Bash, PowerShell

Framework & Standards: NIST SP 800-53, PCI-DSS, NIST CSF, ISO 27001

Tools & Frameworks: Active Directory, Linux/Windows Systems Administration, Wireshark, Nmap, Nessus

Academic Experience

Project and Portfolio Series

Cybersecurity & Information Technology:

- Architected and deployed multi-OS virtualized environments across Windows Server and Linux platforms, implementing hardened configurations and role-based access controls (RBAC).
- Executed technical threat hunting, network packet analysis, and vulnerability assessments using Wireshark, Nmap, and Nessus to produce actionable remediation strategies.
- Automated routine system administration and configuration management workflows utilizing Python, PowerShell, and Bash scripting.
- Authored incident response plans and baseline security documentation strictly aligned with NIST SP 800-53, NIST CSF, and PCI-DSS compliance frameworks.

Network & Cloud Architecture Environment:

- Designed software-defined data center (SDDC) components and configured secure network infrastructure to ensure resilient data delivery.
- Implemented cloud networking protocols and perimeter security controls across public, private, and hybrid cloud deployment models.

Education

Cybersecurity Bachelor of Science Completion Program | Full Sail University | Winter Park, FL | Expected Graduation: 10/2/2026

Information Technology Associate of Science | Full Sail University | Winter Park, FL | Graduation Date: 8/1/2025