Madeleine McBride

(843)805-2100 | MM249@email.sc.edu | Website: mcmad1325.github.io

EDUCATION

University of South Carolina   **Aug. 2022 – May 2026**
B.S. Computer Information Systems   GPA: 3.8
Minor: Business Information Management
South Carolina Honors College

Honors and Awards

Honors: Dean's List, President's List
Awards: Department of War Cyber Scholar Academy, VICEROY DECREE Scholar, Palmetto Fellows Scholarship

WORK EXPERIENCE

Network Operator   **Dec. 2023 – Present**
USC Division of IT   Columbia, SC

- Configure and deploy Cisco and Aruba access points, Juniper switches, and routers via CLI-based management in PuTTY.
- Perform switch configuration, VLAN setup, and port security adjustments to support enterprise network segmentation and policy enforcement.
- Conduct physical installation, cabling, and testing of access points and switches, verifying signal integrity and proper documentation before deployment.

Cybersecurity Youth Instructor   **May 2024 – Aug. 2024**
Trident Technical College   North Charleston, SC

- Delivered instruction on core cybersecurity principles, including ethical hacking techniques, network security protocols, and encryption methods, to elementary and middle school students.
- Designed and led hands-on labs simulating real-world security scenarios, integrating critical thinking challenges with practical use of cybersecurity tools.

IT Service Technician   **Dec. 2022 – Dec. 2023**
USC Division of IT   Columbia, SC

- Provided Tier-1 and Tier-2 IT support in-person and remotely, resolving hardware/software issues efficiently using Service Now.
- Resolved 300+ IT tickets for university faculty, staff, and students, ensuring optimal system performance.
- Leveraged the ServiceNow ticketing system to document issues, escalate security-related incidents, and coordinate resolutions with networking and cybersecurity teams.

RESEARCH

Context-Aware Multifactor Authentication | Research Assistant   **Sept. 2024 – Jan. 2026**
USC College of Engineering and Computing   Columbia, SC

- Developed a Python-based simulation to inject IP spoofing attacks and adjust trust scores in large-scale authentication datasets, enhancing realism in adversarial testing.
- Engineered preprocessing pipeline using pandas and scikit-learn with label flipping, numeric noise injection, and trust score overlap to prevent support vector machine (SVM) overfitting (AUC: 0.98).
- Designed CLI-controlled quick and full execution modes and visualized ROC performance to accelerate model evaluation and support robust binary classification.

Certifications

Cisco | Introduction to Cybersecurity – Cisco Networking Academy
- Earned January 21, 2026

TECHNICAL SKILLS

Languages | Python, JavaScript, Java, C/C++
Networking and Security | Docker, Kubernetes, GAN, PuTTY, Protégé, Wireshark, Aruba, Cisco, Juniper
IT Support and Software | Git, Service Now, Pinnacle, Microsoft Suite, Linux