

Madeleine McBride

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

PROFESSIONAL SUMMARY

Honors College senior majoring in Computer Information Systems and Department of Defense Cyber Service Academy Scholar with hands-on experience in network operations, IT support, and cybersecurity research. Skilled in configuring enterprise infrastructure, developing context-aware multifactor authentication, and applying IT expertise to advance healthcare technology.

EDUCATION

University of South Carolina – B.S. Computer Information Systems
Honors College
Extracurriculars: Women in Computing (President), Gamecock Battalion Cyber Club (Treasurer), Women’s Ultimate Frisbee

May 2026
Columbia, SC

WORK EXPERIENCE

Network Operator
USC Division of IT

Dec. 2023 – Present
Columbia, SC

- Configure and deploy Cisco and Aruba access points, Juniper switches, and routers via CLI-based management in PuTTY, optimizing network performance, coverage, and security.
- 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 configuration before deployment.

Cybersecurity Youth Instructor
Trident Technical College

May 2024 – Aug. 2024
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
USC Division of IT

Dec. 2022 – Dec. 2023
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.

PROJECTS

Context-Aware Multifactor Authentication | Research Assistant

Sept. 2024 – Present

- Developed a Python-based simulation to inject IP spoofing attacks and dynamically 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 SVM overfitting (AUC: 0.82–0.91).
- Designed CLI-controlled quick/full execution modes and visualized ROC performance to accelerate model evaluation and support robust binary classification.

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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