

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 experience in network operations, IT support, and cybersecurity research. Skilled in configuring enterprise infrastructure, developing context-aware multifactor authentication, and IT expertise to advance healthcare technology. Learn more about me on my personal website: <https://mcmad1325.github.io>

EDUCATION

University of South Carolina – B.S. Computer Information Systems – GPA: 3.8
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.

RESEARCH

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