

Madeleine McBride

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Education

University of South Carolina Honors College (UofSC) Columbia, SC Expected Graduation: May 2026

- B.S. Computer Information Systems
- Department of Defense Cyber Service Academy Scholar

Technical Skills

Programming: Java, Python, HTML, CSS, C++

Networking and Security: PuTTY, Protégé, Wireshark, Linux OS

IT Support and Software: Service Now, Git, Excel, Microsoft Suite

Work Experience

Undergraduate Research Assistant – *UofSC College of Engineering and Computing* Sept. 2024 – Present

- Developing an Android mobile app to implement context-aware multifactor authentication.
- Managing a prototype database to evaluate Protégé reasoning for passive context analysis.

Cybersecurity Youth Instructor – *Trident Technical College* Summer 2024

- Teach fundamental cybersecurity concepts to elementary and middle school students, including ethical hacking, network security, and encryption.
- Lead interactive lessons and hands-on activities to engage students in real-world cybersecurity challenges and critical thinking exercises.

Network Operator – *UofSC Division of IT* Dec. 2023 – Present

- Monitor and troubleshoot network outages for a large-scale enterprise environment, ensuring system reliability and uptime.
- Configure and maintain networking equipment (Aruba, Juniper, Cisco) using PuTTY to optimize performance and security.
- Support enterprise security policies, enforcing blacklisting firewalls, maintaining data center physical security, and managing campus switch configurations.

IT Service Technician – *UofSC Division of IT* June 2023 – Dec. 2023

- 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.
- Collaborated with cybersecurity and networking teams to address security concerns and implement best practices.

Extracurriculars

Woman In Computing – *Vice President* January 2023 – August 2024

- Led strategic planning for club meetings, coordinating technical workshops (Wireshark, Python) and professional development sessions to engage members in hands-on cybersecurity training.

Cybersecurity Competitions

- NIWC Atlantic Cyber Redzone – Hackathon
- BSIDES Augusta – Capture the Flag