Steven Broaddus

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EDUCATION

The Ohio State University, Columbus, OH
Master of Science in Computer Science and Engineering
Expected Graduation: May 2026

Bachelor of Science in Computer Science and Engineering
Honors Program in the College of Engineering
Graduated: May 2025
GPA (4.00 scale): 3.95

QUALIFICATIONS & SKILLS

Relevant Experience:

- Extensive experience in developing supervised, unsupervised, and deep learning models, as well as data wrangling, exploratory data analysis (EDA), and statistical evaluation
- Specialized in using Python for data science, machine learning pipelines, REST API development, GUI design using Qt, and networking research
- Well-versed in enterprise infrastructure and standards for scalability & maintainability
- Completed Cisco's Networking Academy's *CCNAv7 Networking Course*

Programming Languages: Python, C/C++, SQL, Java, JavaScript, MATLAB, Assembly, Ruby
Software/Services: Docker, AWS, Kafka, Kubernetes, GitHub Actions CI, Simulia CST Suite

EXPERIENCE

Nationwide NCACI Graduate Research Associate (Spring 2025 – Current)
Description: Developing automated unit and regression testing frameworks for machine-learning telematics pipelines with complex enterprise infrastructure including Kafka/AWS while adhering to industry best practices and standards

Undergraduate Researcher at The Ohio State University (May 2024 – Spring 2025)
Description: Researched the development and integration of ML into a new class of wearable coils that capture joint kinematics (flexion/rotation) without impeding natural movement. Work was alongside the Wearable and Implantable Tech. Research Group at OSU

AFRL Scholars Program Intern, Kirtland Air Force Base (September – April 2024)
Title: Associated Attack Surfaces and Vulnerabilities of Space Vehicle Autonomous Functions
Description: Surveyed cyber-attacks against terrestrial systems with autonomous capabilities to determine probable vulnerabilities for space systems with similar capabilities

AFRL Scholars Program Intern, Kirtland Air Force Base (May – August 2023)
Title: Trusted Platform Module for Embedded Systems
Description: Investigated the application of a trusted platform module (TPM) for hardening an embedded computing system. Developed software to interface with the TPM module