

Taylor Webb

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Active Security Clearance: Secret

EDUCATION

Towson University, The Fisher College of Science and Mathematics

Towson, MD

Bachelor of Science in Computer Science

Expected Graduation: May 2025

Minor in Business Administration

GPA: 3.849

Honors College

Relevant Coursework:

- Artificial Intelligence | Introduction to Machine Learning | Data Structures and Algorithms | Operating Systems | Database Management Systems | Object-Oriented Design & Implementation | Software Engineering | Web-Based Programming

TECHNICAL SKILLS

Programming Languages: Python | Java | JavaScript | C++ | C# | SQL | Bash

Libraries/Frameworks: TensorFlow | PyTorch | Kornia | LangChain | scikit-learn | Pandas | NumPy | Matplotlib

Tools & Operating Systems : HTML | CSS | Git | Linux | Ubuntu | MacOS | Windows

Other: Machine Learning | Deep Learning | Data Analytics | Data Engineering & Warehousing | OOP | Cybersecurity | Encryption

WORK EXPERIENCE

Lab Administrator

Towson, MD

CIS TechHub, Towson University

August 2024 – Present

- Provide technical assistance to 1,700+ students and faculty in the CIS Department with technical questions, troubleshooting problems, network service access requests, and software installation.
- Mentor students in the effective use of computer resources, improving their technical proficiency and confidence.

Computer Science Intern

Aberdeen Proving Ground, MD

US Army DEVCOM C5ISR Center

June 2024 – January 2025

- Researched and implemented adversarial attack algorithms with the Machine Learning Research Team to evaluate their effectiveness and identify vulnerabilities in machine learning models.
- Conducted hyperparameter searches and optimized configurations by 18% to enhance model performance.

Astro Scholars Program Intern

Baltimore, MD

The Space Telescope Science Institute, John Hopkins University

January 2025

- Researched UV telescope technologies for detecting extraterrestrial life beyond our solar system, deepening expertise in astronomy and Python programming for data analysis and visualization.
- Explored astrophysics concepts and collaborated with scientists and peers to gain insights into the work of astronomers while contributing to research on NASA's Habitable Worlds Observatory.

Technical Support Specialist

Remote

Solix Inc.

November 2021– December 2024

- Provided frontline customer service and technical support to 30+ end-users daily via phone, email, and ticketing systems.
- Managed secure database access using Cisco AnyConnect, Citrix Gateway, SecurePassPlus.

PROJECTS

Adversarial Machine Learning Model | *Python, Pandas, PyTorch, Kornia, scikit-learn, TensorFlow, NumPy*

- Enhanced an adversarial machine learning model by fine-tuning hyperparameters, increasing accuracy by 18%.
- Leveraged Kornia, TensorFlow, and Matplotlib for image transformation and warping to improve robustness against adversarial attacks.

USB Flash Drive Encryption and Authentication System | *Bash, Linux, C#*

- Created a password-protected encryption system for USB flash drives by developing a Bash script and using cryptsetup and LUKS.
- Utilized Linux USB driver architecture to automate encryption workflows, ensuring secure data storage and transfer while testing for reliability and usability.

LEADERSHIP & INVOLVEMENT

- Hill-Lopes Scholars Program (Epsilon Cohort)
- Women in Cybersecurity (WiCyS)
- Resident Assistant
- Sister Scripters – Secretary (Women of Color in Tech)
- National Society of Black Engineers (NSBE)