Liam Duckworth

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EXPERIENCE

Towson University Sep 2022 – Present
Undergraduate Machine Learning Researcher, Department of Computer Science Towson, MD

- Had academic research paper "Deblurring as a Defense against Adversarial Attacks" accepted for publication by IEEE and will present research at the IEEE Cloudnet2023 conference.
- Works with cutting-edge machine learning frameworks such as PyTorch and TensorFlow to study the application and utilization of machine learning models in the field of privacy and security.
  - Research focuses on the use of adversarial gradients to disrupt classification models and potential defenses against such attacks.
  - Researched, summarized, and evaluated academic papers based on their relevance to the research.
  - Designed, implemented, and tested machine learning models on research servers for evaluation of their performance.

Frederick Gymnastics Club Aug 2015 – Dec 2019
Gymnastics Coach Frederick, MD

- Worked with kids ranging in age from 2 – 13, at a variety of skill levels
- Planned and communicated daily activities and skills to maintain constant progression for students.
- Worked with many different groups of students weekly, requiring the ability to quickly assess skill levels and alter explanations of complex concepts for various learning styles.

EDUCATION

Towson University Aug 2020 – Dec 2023
Bachelor's Degree in Computer Science Towson, MD

- Expected Graduation: December of 2023
- Award: Towson University Merit-Based Provost Scholarship
- Organizations: Towson University Honors College

Frederick Community College (Dual Enrollment) Jan 2018 – May 2020
Associates Degree in General Studies Frederick, MD

- Award: 1st in the poster presentation category of the Maryland State Honors Conference.
- Organizations: Frederick Community College Honors College.

PROGRAMMING LANGUAGES

Java

- Ability: Advanced
- Primary Purpose: Used for in-class projects, assignments, and honors college computer science research at Frederick Community College.

Python

- Ability: Advanced
- Primary Purpose: Used for machine learning research and daily scripting tasks.

JavaScript

- Ability: Novice
- Primary Purpose: Used for in-class projects and final assignment for "Web-based programming" course.