

ANDREW **KELLY**

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EDUCATION

Morgan State University | *Bachelor of Science Degree* **2025**

- Cumulative GPA: 3.78
- Clara I. Adams Honors College Student
- Deans List
- Related Coursework: Intro to Computer Science I, Intro to Computer Science II, Data Structures and Algorithms, Computer Systems and Digital Logic, Object Oriented Programming, Intro to Game Design and Development, Computer Architecture, Discrete Structures, Computer Networks, Cybersecurity, Artificial Intelligence
- Skills: Python, C++, C, HTML, CSS, PyTorch, Tensorflow, Open CV, Yolo V8, Leadership

EXPERIENCE

Software Engineer Intern **Remote**
Battelle **Jun 2024 – Aug 2024**

- Worked on a computer vision and machine learning project to independently test and evaluate a wide range of artificial intelligence and machine learning models.
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Undergraduate Research Assistant **Baltimore, MD**
Human AI-eXperience Lab **Aug 2023 – Present**

- Leading a team of researchers focused on a project that works with bias in BCI.
- Working on an intelligent tutoring system that utilizes machine learning to help students learn math concepts in ways that caters specifically to them
- Working on an intelligent tutoring system that utilizes machine learning to help students learn python in a way that caters specifically to them.
- Working on an intelligent tutoring system that utilizes machine learning to help students learn python in a way that caters specifically to them.

Summer Researcher **Baltimore, MD**
Center for Equitable AI and ML Systems **June 2023 - August 2023**

- Created a Dynamic Traffic Model to improve traffic flow at underserved community's intersections in Baltimore.
- Created an automated vehicle counting machine learning program using PyTorch, YOLO V8, and OpenCV.
- Created multiple simulations of dynamic and static traffic models using PTV Vissim and Pygame.
- Conducted studies on SMART Cities and Intelligent Transportation Systems

Leadership Alliance Summer Researcher **Charlottesville, VA**
University of Virginia **June 2022 - August 2022**

- Conducted research on saliency maps and techniques.
- Implemented RISE saliency into Image Classification Neural Network.
- Create and refined image classification programs in PyTorch.

Extreme Science Machine Learning Research Program **Baltimore, MD**
Morgan State University **February 2022 - May 2022**

- Responsible for improving the accuracy of a Tungsten Rod Image Classification Machine Learning Model. The program reached an accuracy of 93 percent in identifying the correct position of the tungsten rod when it was previously 50 percent.

- I was Responsible for uploading tungsten rod images in different positions to our server for proper classification and refinement of our program.
- Worked with TensorFlow to get the accuracy results for the model.

PRESENTATIONS

- Kelly, A., Mack, N. (2023, November 7). Physiological Insights Through Emotibit In Virtual Reality Stress Assessment. Baltimore, Maryland, United States of America: Morgan State University Undergraduate and Graduate Research Symposium
- Kelly, A., Aladeokin, O., Miller, S., and Russell, T. (2023, August 4). Application of Artificial Intelligence, Machine Learning, and Computer Vision in a SMART Transportation Management System of an Underserved Community. Baltimore, Maryland, United States of America: Morgan State School of Engineering Summer Research Symposium, Center for Equitable AI and Machine Learning Systems Summer Research Symposium.
- Kelly, A., Dwyer, M. (2022, July 27). Using Machine Learning to Test Saliency. Hartford, Connecticut, United States of America: Leadership Alliance National Symposium.
- Kelly, A., Shrestha, P., Liu, C., and Ozturk, B. (2022). Machine Learning Assisted Nanoscale Electrode Fabrication. Morgan State University's 27th Annual Undergraduate and Graduate Research Symposium. Baltimore.

EXTRACURRICULAR EXPERIENCE

(2023) BeSmart Hackathon

(2023 - Present) Morgan State CodeBears Mentor

(2023 - Present) National Society of Black Engineers

(2021 - Present) Society for the Advancement of Computer Science

(2021 - 2022) Morgan M.I.L.E (Morgan Male Initiative on Leadership and Excellence)

(2019 - 2021) MESA (Mathematics, Engineering, Science Achievement)

(2015 - 2021) MAC Scholars (The Multicultural Achievement Committee)