

Hello

I'm Arie Hempe (*they/them*)

HILLSIDE APARTMENTS POK32_A

UMBC, HILLTOP CIRCLE

BALTIMORE, MD 21250

(301) 401-2610

SCHOOL: thempe1@umbc.edu | PERSONAL: arie.hempe02@gmail.com

Education

AUGUST 2020 - ONGOING (EST. MAY 2024)

University of Maryland, Baltimore County, Baltimore

Computer Science major | Physics minor

Current GPA: 3.46

Activities

SEPTEMBER 2018 - FEBRUARY 2020

Minerva's Mechanics – *Lead Programmer*

- FIRST Tech Challenge team 11525 - competed in Worlds during the 2018-2019 season
- Worked in Java to create a robot that could perform autonomous and driver-controlled tasks
- Worked with driver team to make driving the robot comfortable in competition
- Worked with building team to plan the capabilities of the robot
- Adapted to the new challenges of each year's competition

Programming Projects/Experience

SYN DoS Dataset Detection

- Python script that learns to detect malicious packets in one subset of the SYN Denial of Service dataset - got similar result accuracy to researchers
- Final project for Introduction to Machine Learning

***NotITG* Level Design**

- Level and graphic effect design for *NotITG*, a community-based rhythm game, using Lua
- Balancing playability with flashy effects to make a memorable level

WAV to Table

- Lua program which split a WAV file into a table of frequencies and times
- Output was used to make a visualizer effect in another program, where computing the visualizer in real time would be too expensive