OBJECTIVE: Summer/Winter 2023 Internship or Research position in CS/ML

EDUCATION

Carnegie Mellon University

AUGUST 2021 - CURRENT

- BS **Computer Science** 2025
- Concentration in **Machine Learning**

Fair Lawn High School

GPA: 4.4

SEPTEMBER 2017 - JUNE 2021

- **Ten AP** classes taken in total
- All Honors besides AP classes
- In seven clubs

PROJECTS

doidVerse: Real-Time Evolution Simulator

MAY 2022 - AUGUST 2022

- Realtime **Evolution Simulator** built in **Unity3D** using **C#**.
- Agents are born with randomized **neural networks** , using **adjacency list** implementation, that converge over time due to the laws of **natural selection** (**NEAT algorithm**) to the optimal configuration for survival and reproduction.
- Utilizes **cellular automata** to **procedurally generate** world.

GameOfEvo: Automata Inspired Evolution Simulator

APRIL 2022 - MAY 2022

- Automata Inspired **Evolution Simulator** written in **Python** using **networkx, matplotlib, cv2,** and **numpy.**
- Agents are born with randomized **neural networks** and only reproduce the next generation if they meet some arbitrary criteria. This causes the neural networks to become optimal in satisfying the criteria.

hthsHacks: AniLarm Rodent Detector

MAY 2020

- Developed **Python** program using **harrcascasdes**, **OpenCV**, and **arduino** to notify farmers of rodents eating crops.
- Made with group of 4 for the **hthsHacks** Hackathon which took place on May 16, 2020
- Theme of hackathon was solving problems Covid created so we made Anilarm to solve a potential food shortage

Amaad Martin

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SKILLS

PROGRAMMING LANGUAGES

C
C#
Python
Java
SML
LaTeX

TOOLS/FRAMEWORKS

Unix Command Line
Git
Unity3D

COURSEWORK

21-259 Calculus in 3-D
07-180 Concepts in AI
21-128 Math Concepts & Proofs
15-122 Principles of Imperative Computation
21-241 Matrices & Linear Transformations
15-150 Principles of Functional Programming

HOBBIES/CLUBS

ColorStack - Operations Chair
CMBMC - Org Collab & Small Events Chair
NSBE (National Society of Black Engineers)
SPIRIT Black Student Organization