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

EDUCATION

Carnegie Mellon University

AUGUST 2021 - MAY 2025 (ANTICIPATED)

- BS Computer Science 2025
- Concentration in Machine Learning

Fair Lawn High School

GPA: 4.3

SEPTEMBER 2017 - JUNE 2021

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

PROJECTS

doidVerse: Real-Time Evolution Simulator

Summer 2022

- Realtime **Evolution Simulator** built in the **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

Summer 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 causing the neural networks to adapt to 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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https://github.com/AmaadMartin https://amaadmartin.github.io/portfolio

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 Al

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

NSBE (National Society of Black Engineers)

SPIRIT Black Student Organization