OBJECTIVE: Summer 2023 SWE Internship or ML Research

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
- Head of Drumline in Marching Band

PROJECTS

doidVerse: Real-Time Evolution Simulator

MAY 2022 - AUGUST 2022 (Lead Software Engineer)

- Created a real-time Evolution Simulator in C# using Unity3D.
- Implemented NEAT (NeuroEvolution of Augmenting Topologies)
 algorithm to find optimal neural network configuration. Agents are
 born with randomized graph neural networks, using an adjacency
 list implementation, that converge to the optimal configuration due
 to natural selection.
- Made procedurally generated maps with cellular automata.
- Optimized the search space so optimal configurations are found in less than 5 minutes
- 200+ hours of work, 2000+ lines of code

GameOfEvo: Automata Inspired Evolution Simulator

APRIL 2022 - MAY 2022 (Lead Software Engineer)

- Created an Automata Inspired Evolution Simulator in Python using networkx, matplotlib, cv2, and numpy.
- Implemented agents with graph neural networks that only reproduce the next generation if they meet some arbitrary criteria.
 Natural selection picks the optimal configurations to reproduce.
- 80+ hours of work, 1000+ lines of code

hthsHacks: AniLarm Rodent Detector

MAY 2020 (Software Engineer)

- 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
- Created to solve the problem of food shortages due to **COVID-19**

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