Amaad Martin

amaadm@cs.cmu.edu New Jersey, United States 762-258-2474 amaadmartin.github.io/portfolio
linkedin.com/in/amaadmartin github.com/AmaadMartin

EDUCATION

MS Machine Learning 01/2025 – 12/2025
Carnegie Mellon University Pittsburgh, Pennsylvania, United States
5th-year MSML
GPA: 3.78

BS Computer Science 08/2021 – 12/2024
Carnegie Mellon University Pittsburgh, Pennsylvania, United States
Machine Learning Minor
GPA: 3.60

EXPERIENCE

Software Development Engineer 05/2025 – 05/2025
Amazon Seattle, Washington, United States
- Working on Security/Privacy team to integrate **LLMs** into internal security tools.

Bespoke Software Lead 02/2025 – 07/2025
Frankenbuild Ventures Boston, Massachussets, United States
- Built web scraper that creates database of startups, given ideal customer profile with **AI Agents**
- Integrating Frankenbuild fellows' projects into my software, ArtemisGen, for white-glove solution
- Automating outbound deal sourcing and due diligence

Software Development Engineer 05/2024 – 08/2024
Amazon Seattle, Washington, United States
- Built Internal **API** for diagnosing large amounts of stuck workflows in parallel
- Integrated API into Automatic DJS job for automated diagnosis
- Classified around **3000** workflows and moved them to granular buckets speeding up root cause discovery by **25x**

Software Development Engineer 05/2023 – 08/2023
Amazon Seattle, Washington, United States
- Created an ECS Fargate service using **AWS** to help internal customers
- Implemented new API to automate internal process for external teams
- Cut down process time from **2 weeks to 2 minutes**
- Integrated existing CLI commands into **easy-to-use UI** using Ruby and Javascript

UNIVERSITY RESEARCH

The Agent Company 10/2024 – 12/2024
Carnegie Mellon
- Supervised by Graham Neubig and Daniel Fried
- Creating benchmark to evaluate **Computer Agents** performing common job tasks
- Large-scale automation of professional jobs with **Agents**

ReVL: Recursive Visual Language Model 02/2024 – present
Carnegie Mellon
- Research under Prof. Matt Gormley of the Machine Learning Department
- Adding **Recursive Inductive Bias** to Large Visual Language Model to improve desktop control task
- Fine-tuning the QwenVL **Open Source Large Visual Language Model**
- Achieved **86%** performance of prior paper with **10%** of the data

Reinforcement Learning Car 09/2023 – 09/2024
Carnegie Mellon
- Research under Prof. Matt Gormley of the Machine Learning Department
- Integrating **DayDreamer** algorithm into remote controlled **Rasberry Pi car**
- Architecting **demonstration** of Reinforcement Learning for students of 10-301/601 (Intro to ML)
- Attempting to train optimal agent in under **6** hours

PROJECTS

GenStudio: Generative Tools for Producers
11/2023 – 01/2024
- **Generative Sample Library:**
  - Developed **react** website for **generating samples** given a text input
  - Connected **Meta's MusicGen API** for generation
  - Accepted for **YCombinator** Interview
- **Copilot for Mixing and Mastering:**
  - Implemented Digital Audio Workstation **plugin** using the **JUCE** Framework
  - Utilized **OpenAI Assistants API** to control audio effects

doidVerse: Real-Time Evolution Simulator
05/2022 – 08/2022
- Created a real-time **Evolution Simulator** in **C#** with **Unity3D**
- Implemented **NEAT (NeuroEvolution of Augmenting Topologies)**
- Designed **procedurally generated maps** utilizing **cellular automata**
- Combined **200+** hours of work, **2000+** lines of code

COURSES

11-777 (Multimodal Machine Learning)

10-707 (Advanced Deep Learning)

10-703 (Deep Reinforcement Learning)

10-623 (Generative AI)

15-451 (Algorithm Design and Analysis)

15-418 (Parallel Computer Architecture and Programming)

10-315 (Intro to Machine Learning)

15-213 (Intro to Computer Systems)

AWARDS

Dean's List (Spring 2023, Spring 2024)