# Amaad Martin

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## 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 Intern** 05/2025 – 05/2025
*Amazon* Seattle, Washington, United States
- Created **MCP Server** to let **LLMs** query purchase logs
- Turned **hours** of dev work into **minutes**
- Worked on Security/Privacy team

**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**
- Lead Frankenbuild's fellows to integrate projects into my app
- Saved **100 hours per week** of manual work

**Software Development Engineer Intern** 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 Intern** 05/2023 – 08/2023
*Amazon* Seattle, Washington, United States
- Implemented new API to help external teams update email templates
- 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

**10-707 (Advanced Deep Learning)**
**10-623 (Generative AI)**
**10-725 (Convex Optimization)**
**11-777 (Multimodal Machine Learning)**
**10-703 (Deep Reinforcement Learning)**
**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)**