Sam O'Nuallain

CS and Economics Major

I am a well-rounded, driven computer science student with demonstrated leadership and 3 summers of internship experience. I am looking for a Summer 2025 internship to gain more experience in ML/AI.

Contact

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samonuall.github.io

Education

December 2024

BS Computer Science, Double Major in Economics - 3.9 GPA

University of Massachusetts Amherst

February - May 2024

VU Amsterdam Exchange Program

Skills

- Python
- C/C++
- Javascript
- SQL
- Machine Learning
- React

Experience

June 2024 - Present

XCamp Academy

Software Engineering Intern

- Creating generative AI tools to help students learn computer science.
- Using Langchain, React, OpenAI, and AWS services to design and deploy an LLM-powered coding tutor for students

June 2023 - August 2023

Lockheed Martin Space

Software Engineering Intern

- Worked on flight software for the first LM400 satellite bus to be put into space, working on a fast-paced mission
- Responsible for writing, testing, and integrating C++ and Python code on a large codebase in Agile-based sprints, focusing on the data subsystem of the satellite
- Designed and implemented the main interface used for communicating between the payload and ground station

February 2023 - February 2024

BUILD UMass

Project Lead

- Led a team of 7 in a pro-bono tech consulting club to build and launch a full stack React website, resulting in a prototype website with a custom CMS for a professor

June 2022 - August 2022

Lockheed Martin Space

Junior Software Engineering Intern

- Worked on flight software for a CubeSat with commercial stakeholders and a short development timeline
- Built a wrapper TCP messaging service in C++ which became the new standard for inter-application messaging on my team, and increased messaging speed by 100%

Projects

(more information at https://samonuall.github.io/)

Face to Sketch Conditional GAN

Python, Pytorch, Cuda

- Group final project for CS course; built, pretrained, and fine-tuned a cGAN on face photos/sketches

Reducing Echo Chambers in Collaborative Filtering Models

Python, Pandas, Networkx

- Final project for CS course, used user ratings of books and graph algorithms to create a new model.

Fine-Tuning LLMs for System Initiative Prediction

Python, Pandas, HuggingFace API

- Group project in an undergraduate research program. Fine-tuned Llama-7b on MSDialog data.