Sam O'Nuallain

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Education

University of Massachusetts Amherst	Expected December 2024

Commonwealth Honors College, BUILD UMass, Peer Tutor
BS in Computer Science, Double Major in Economics - 3.9 GPA

Vrije Universiteit Amsterdam Exchange Program	February 2024 - May 2024

Skills: Python (Advanced), C++ (Intermediate), Javascript (Intermediate), HTML/CSS (prior experience)

Work Experience

Software Engineering Intern

Lockheed Martin Space   **June 2023 - August 2023**

- Worked on flight software for the first LM400 satellite bus to be put into space, working on a fast-paced and groundbreaking 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

Project Lead

BUILD UMass   **October 2022 - February 2024**

- Lead a team of 7 in a pro-bono tech consulting club to build and launch a full stack React website
- Coordinate with client, run weekly standup meetings, and assign tasks for frontend and backend

Junior Software Engineering Intern

Lockheed Martin Space   **June 2022 - August 2022**

- Worked on flight software for a CubeSat with commercial stakeholders and a short development timeline
- Built a wrapper TCP messaging service in C++ that solved previous service's problem of not being able to handle multiple callbacks, which became the new standard for inter-application messaging on my team

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Projects (More information available 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.