

Annie Feng
azfeng8@gmail.com | www.azfeng8.github.io

EDUCATION

Massachusetts Institute of Technology

2023-Now

Candidate for Master's of Engineering in Electrical Engineering and Computer Science, *Expected Feb 2024*

- Graduate Teaching Assistant for 6.4110 (AI Representation, Reasoning, & Inference)
- Concentration in AI. Thesis work with Learning and Intelligent Systems Group @CSAIL

2019-2023

B.S. in Electrical Engineering and Computer Science, 5.00/5 GPA

- **Selected Coursework:** Inference and Information (Graduate), Planning Under Uncertainty (Graduate), Machine Learning, Design and Analysis of Algorithms, Software Construction, Advances in Computer Vision, Advanced NLP, Signal Processing, Circuits, Computer Architecture, Differential Equations, Linear Algebra, Probability
- **Honors, Activities:** Tau Beta Pi (top 12.5% of junior class), Eta Kappa Nu, Emerson Piano Scholar

PROFESSIONAL EXPERIENCE

AI Software Intern, DriveIX at NVIDIA

I interned twice on the data engineering team for the Drive IX (Intelligent Experience) Cockpit product at NVIDIA.

Summer
2022

In my 1st internship, I did 3 things: (1) generalized the 3D Region Mapping software by writing a BFS to identify transformation matrices to multiply, (2) wrote the software protocol over TCP sockets for the laser robot data collection subsystem, (3) automated part of the data pipeline for the gaze prediction network.

In my 2nd internship, I did 3 things: (1) created proposals and discussed with leads of different software teams to integrate the calibration data for all our sensors into a globally-shared data structure, (2) wrote a C++ parser and loader of this data for inference and data collection, (3) wrote Python scripts to automate the pipeline for the calibration data for the gaze prediction network.

Summer
2023

RESEARCH

Master's Thesis with Learning and Intelligent Systems Group at CSAIL, MIT

Fall 2023-Now

I'm leveraging large language models' commonsense reasoning for exploration in reinforcement learning.

Undergraduate research with Clinical Decision Making Group at CSAIL, MIT

Spring
2023

I worked on a classifier model for electronics shipping documents.

Undergraduate research with Little Devices Lab at MIT

Summer 2021

I worked on full-stack development of a swarm robotics system.

Undergraduate research with Langer Lab, Traverso Group at MIT

2020-2021

Project: Vital signs monitoring on mobile robotics platform

I programmed and analyzed experiments of a computer vision algorithm that predicts heart rate and oxygen saturation. [paper](#)

Project: Cost-effectiveness Markov Cohort Model

I developed cost-effectiveness model and analysis of a new medical device, and shadowed Dr. Jacqueline Chu at MGH, in the gastroenterology department. [Paper](#) [slides for talk](#) [another paper](#)

Skills: Software Engineering, Data Pipelines, Robotics, Python, C++