Vivian Trinh

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Education

Massachusetts Institute of Technology — Cambridge, MA

B.S. Computer Science, GPA: 4.7 — September 2021 – May 2025

CS Courses Python, C & Assembly, Algorithms, Computation Structures, Software Construction, Machine Learning, Natural Language Processing, Computer Vision, Interconnected Embedded Systems

Experience

Twitch — San Francisco, CA

Software Engineer Intern — June 2024 - August 2024

- Incoming intern - placed on community team to build features for creators to produce and share content

Roblox — San Mateo, CA

Product Management Intern — May 2023 - August 2023

- Worked on Engine Systems Performance team to build an accurate iOS and Android Out-of-Memory (OOM) Crash Predictor using heuristics and ML
- Determined initial design of the OOM crash predictor, wrote the product spec for it, and conducted my own data analysis to iterate on the predictor
- Managed software engineers to build heuristic predictor and insert telemetry to gather data for training the ML model and computing success metrics

Walden Local Meat Co. — Tewksbury, MA

Software Engineer Intern — January 2022 - February 2022

- Designed and implemented real-time inventory tracking and request system with database models and user interfaces
- Built the frontend of the request system – created GUIs for packing and inventory team to allow them to send out and complete replenishment requests
- Built the backend of the request system – ensured proper data storage/retrieval and connected inventory requests/completions to database

HackMIT — Cambridge, MA

Corporate Relations Head — September 2021 - September 2022

- Managed the Corporate Relations team as committee head for HackMIT by organizing outreach strategies to schools, companies, and organizations
- Negotiated sponsorships with companies and organizations and raised over $200k for HackMIT

Undergraduate Research — Cambridge, MA

Building Lightweight Climate Models with Physics-informed Deep Learning — September 2021 - July 2022

- Extracted data for research in developing more energy-sustainable lightweight climate models
- Process climate model output to implement a baseline time-series machine learning model

Projects

SARIMA Forecasting Model for Mean Surface Air Temperature (TAS)

- Extracted data from CMIP6 to use in forecasting models
- Created an animation using MATLAB to show changes in surface air temperature on global map from 1850-2014
- Used SARIMA model to predict mean global surface air temperature

River Herring Detection Using ML

- Labeled and trained dataset using YOLO5 to detect fish movement in fisheries
- Research will assist fisheries in accurate count of fish population to replace manual human counting

Skills

Languages Python, C/C++, Java, JavaScript, HTML/CSS, Typescript, SQL

Frameworks + Tools Git, React, MATLAB, Jupyter Notebook, MySQL, NumPy, pandas, Metabase, Grafana, Superset, Kibana, Illustrator