Taimor Williams

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EDUCATION

Massachusetts Institute of Technology, Bachelor of Science in Mechanical Engineering May 2023
Concentration in Computer Science, Minor in Economics

Relevant Courses: Mechanics & Materials, Dynamics & Control, Thermal, Web Lab(React JS, CSS, HTML), Introduction to Algorithms, Product Engineering CAPstone, Software Construction (Python/TypeScript), Introduction to Machine Learning

EXPERIENCES

Shubox, Software Developer January 2024-Present
Developing financial applications for small-business transactions.

- Docker, AWS, React Native, MongoDB
- Building payment processor app to track expenses for Ios and Android interfacing with POS systems

MIT Start Up - Relytics, Data Engineer June 2023- Present
Applying computer vision and data analytics to inform retail store product placement. Piloted the product at a boutique fashion store in downtown Boston

- Python, JSON, Excel, React JS
- CI/CD script JSON data to Excel files, building SaaS web app of real-time feed of data

MIT Aeronautics and Astronautics Dept, Undergraduate Researcher, Cambridge, MA June - October 2022
Collaborated with engineers at Blue Origin on an Orbital Reef project for commercial space applications. Utilizing a mission simulation model-Spacenet, to explore logistic architectures of space missions.

- Python, Tkinter, Pandas, Excel
- Developed Python wrapper module to dynamically create Spacenet missions using Excel and JSON

Liveline, Controls Engineer, Livonia, MI June - Aug 2021
Analyzed downtime for manufacturing production lines allowing continuous control of a factory with a machine learning controller. Spearheaded the development of a monitor and control system to ensure the continuous streaming of data

- Python, Apache Kafka, Threading, Queues, time-series data analytics
- Developed a CI/CD Python script utilizing Kafka threading to extract and process JSON data from factory machines
- Currently used in production

MIT Capstone Mechanical Engineering Product Design, Team Member, Cambridge, MA September - December 2020
Designed a biomedical device for Peripheral Neuropathy in late-stage diabetes patients, built a SaaS, integrating web server functionality for data access and analysis.

- Conducted user interviews and market analysis to inform product development and market strategy
- Python, Django, backend dev, Arduino, market research

PERSONAL PROJECTS

ConnectX Strategy Algorithm Summer 2023 - Present
Developed artificial intelligence model around connect4 game theory. Training a machine learning (reinforcement Deep Q-learning) model to see if it can match a min-max algorithm

- Python, ReactJS, Pandas, Pytorch, Data Analytics, AI

LEADERSHIP & ACTIVITIES

GEM MIT HACKATHON, February 2024, Finalist, built an interactive website that helps users visualize local energy sources and climate impact. Used MySQL and Pandas to develop the backend functionally
Momentum, Sponsored by General Motors January 2019: The team used Arduino to engineer solutions for autonomous vehicles' entree/egress process. Developed a solution using hand movements as an authentication code.
Treasurer MITCAT (MIT Climate Action Team), March 2018-January 2019: Oversaw expenditures and provided group updates on the budget for MITCAT, which seeks to help push the legislature to combat global climate change.
Solar Spring Break, MIT Energy Club, March 2018: Installed solar panels into underprivileged communities in collaboration with Grid Alternatives and Homeboy Industries.
Ron Brown Captain, 2017**:** Invitation-only professional development program for exceptional African American students, Awarded to the top 5% of applicants.

SKILLS

Coding skills: Python, TypeScript, MATLAB, SQL(MySQL, SQLite), ML(Pytorch), React(Js and Tsx), R