Michael Sun

Portfolio: xmike-yyy.github.io/xmike_yyy/
Github: github.com/xmike-yyy

Email: sun_m132@mit.edu
Mobile: +857-505-5310

Education

- **Massachusetts Institute of Technology** — Cambridge, Massachusetts
  Bachelor of Science - Computer Science and Engineering & Mathematics; GPA: 5.0 — *May 2026*
  Courses: Introduction to Python Programming, Multivariable Calculus, Physics, Chemistry, Biology
  Activities: MIT Solar Electrical Racing Team, MIT Institute of Electrical and Electronics Engineers Freshman Representative, Talented Scholars, FLI@MIT, Interphase EDGE, Undergraduate Mathematics Association

Skills Summary

- **Proficient In:**: HTML/CSS, JS, Python, R, Arduino, Jupyter, Machine Learning, Version Control (Git), Google Suite
- **Interests:**: Statistics & Probability, Mathematical Modeling, Optimization and Testing, Computational Algorithms
- **Currently Learning:**: React, C++, Linearity of Expectation, Swift

Experience

- **MIT Lincoln Labs: Active Optical Systems Group** — Cambridge, MA
  Student Researcher — *September 2022 - Present*
  - **Data Visualization**: Implementing sorting and path-finding algorithms to organize and restructure given geospatial data.
  - **Backend Development**: Integrating Flask, JavaScript, Bootstrap, and other backend frameworks to improve accessibility interface of the data collection system
- **MIT Solar Electrical Vehicle Team** — Cambridge, MA
  Backend Developer — *September 2022 - Present*
  - **Python GUI Framework**: Researching different Python frameworks to implement on Raspberry Pi
  - **Backend Development**: Implementing and testing development framework of GUI with Tkinter for interactive monitor.
- **Jane Street** — New York, NY
  Unboxed Intern — *July - August 2022*
  - **Statistics**: Strengthened skills in probability, game theory, and analytical problem-solving.
  - **OCaml**: Practiced introductory OCaml programming principles
  - **Data Extraction and Web-Scraping**: Programmed API-scrapers and models of data-extraction.
- **Goldman Sachs** — Remote
  FinTech Focus Interns — *June 2022 - July 2022*
  - **Full-Stack Web Development**: Built programs with MongoDB, Python, HTML/CSS, Bootstrap, and Flask.
  - **Minimum Viable Products**: Designed and engineered prototypes and MVPs into web applications.
  - **Sponsors:** : Presented to Bank of America, Wells Fargo, Goldman Sachs, J.P. Morgan Chase, and Morgan Stanley.
- **Stanford University** — Palo Alto, California
  Research Intern — *June - August 2021*
  - **Climate Change Misinformation**: Conducted Natural Language Processing research on climate change misinformation under the EECS Department.
  - **Computational Thinking**: Conceptualized, programmed, and tested a Twitter Scraper to assist with research

Projects

- **OceanHackWeek Hackathon (Matplotlib, DataFrames, X-Arrays, Modeling)**: **Contributed** to **open-source** project of **analyzing** Alaskan earthquake databases and **visualizing** its seismic waves by **devising** a GIF generating model using **time-series** data and **scatter-plots**.
- **Twitter Scraper (Python, TweetPy, NLP, APIs)**: **Created** with **Twitter API** and **TweetPy** mixed with **NLP** techniques to retrieve information.
- **Keep: Business Model (Bootstrap, Flask, Web-Development)**: Web-Application built from Flask and Python to make profit/loss calculations/recommendations.
- **Discord Bot (Python)** : **Implemented** the **New York Times API** to return the hottest news today upon command.

Honors and Awards

- **Gates Scholar - Cohort V**: One of the **300 students** selected among the **37,000+ applicants** to receive a **full-ride scholarship** from **the Bill and Melinda Gates Foundation.**
- **Questbridge National College Match Scholar**: **One** of the ten Questbridge students (**nationally recognized first-generation-low-income**) chosen from **16500+** that's offered a **full-ride scholarship** to **MIT**.
- **Asian Pacific Islander Association Scholar (APIA)**: One of **450** scholars chosen from **22,500+** applications (2%). Chosen to be sponsored by **Cox Enterprises** to receive a **$10,000** scholarship to cover my education costs.