

Ivy Mao

New York, NY • (917) 275-3365 • ivymao@mit.edu

EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

Candidate for B.S. in Computer Science, GPA 5.0

June 2023

- *Relevant Coursework*: 6.042 (Mathematics for Computer Science), 6.009 (Fundamentals of Programming), 6.006 (Introduction to Algorithms), 6.08 (Introduction to EECS via Interconnected Embedded Systems), 6.036 (Introduction to Machine Learning), 6.046 (Design and Analysis of Algorithms), 6.031 (Elements of Software Construction), 6.004 (Computation Structures)
- *Activities and Societies*: MIT xFair, Harvard-MIT Math Tournament

The Brearley School

New York, NY

High School Diploma; SAT: 1580

September 2015 – June 2019

- *Activities and Societies*: Computer Science Club (co-head), Varsity Badminton (captain)

WORK EXPERIENCE

Virtu Financial

New York, NY

Quantitative Trading Intern

June 2021 – August 2021

- Working with fellow interns and mentors on the FX trading desk, built tools to consolidate and visualize metrics for evaluating trades
- Conducted signal research and developed tools for identifying certain signals preceding price movement

Ladder (Remote Students)

Remote Internship

Full-stack Web Development Intern

June 2020 – August 2020, January 2021 – February 2021

- Member of the core development team of Ladder, a startup backed by Pear VC developing an exclusive forum for students seeking remote work and community
- Designed and developed frontend and backend systems for features such as notifications, commenting, bookmarking, profile setup, event RSVP, rich text editors, group chats, and direct messaging

MIT Digital Humanities Lab/MIT Sloan School of Management

Cambridge, MA

UROP (Undergraduate Research Assistant)

September 2019 – present

- Built a web application to analyze rereading through metrics such as scroll time and conducted word frequency and sentiment analysis on large sets of student responses
- Developed a choose-your-own-adventure game and map quiz game using Python and React for edX courses
- Designed and developed a gold-mining simulation game for a study on network effects

PROJECTS

Day.ly

MIT

day.ly.herokuapp.com

January 2020

- Entry for web.lab (MIT Web Programming Competition), where it won 3rd place
- Online bullet journal, built with teammates using React/Node.js/MongoDB

chip

TechTogether Boston

chip100.herokuapp.com

January 2020

- Team hackathon project; provides a platform for small business owners to create and join group bulk orders
- Winner of CapitalOne's Best Financial Hack award at TechTogether Boston; built using React/Node.js/MongoDB

SKILLS

Tools: Python, JavaScript, Java, SQL, React, Google Firebase, HTML/CSS, LaTeX, GitHub, Photoshop

Languages: English, Mandarin Chinese, Spanish