

Tinah Hong

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EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

B.S. in Computer Science, Economics, Data Science and B.S. in Management

May 2024

- GPA: 5.0/5.0
- Coursework: Mathematics for Computer Science; Introduction to Algorithms; Fundamentals of Programming; Probability & Random Variables; Machine Learning; WebLab; Software Construction; Computation Structures

EXPERIENCE

qBraid

Hanover, New Hampshire

Full-Stack Software Engineer

May 2021 – August 2021

- Spearheaded the rebuilding and redesigning of the company's landing page and main account website UI/UX
- Increased site functionality by introducing dynamic rendering based on levels of authentication
- Engineered a UI/UX using the AWS SDK to enable admin to send mass templated emails to all users through SES
- Administered the AWS console to configure SES policies and stage 8 versions of the web app on ElasticBeanstalk

Undergraduate Research Opportunities Program

MIT Sloan Business School

Undergraduate Researcher at Professor Andrew Lo's Fintech Lab

November 2020 – May 2021

- Used Pandas to perform regressions on months of second-level data on 6 physiological signals & 15 market indicators
- Analyzed data to explain the psychophysiological impact of financial trading as support for a research paper

SOFTWARE PROJECTS

Converge Social Media App – WebLab [<https://converge-weblab.herokuapp.com>]

January 2021

- Designed and developed a React app that allows users to create groups to collaboratively manage a to-do list, schedule calendar events, monitor payments, and communicate via social media chat that integrates WebSockets
- Integrated Google authentication to create individual profiles, a friends' network, and notification system
- Designed RESTful API (Node/Express/Mongoose) to enable storage and retrieval of information in MongoDB

Predictive Stock Market Model App – HackMIT

September 2020

- Developed an app using Python, Javascript, and HTML/CSS that uses prior trends and data scraped from Yahoo Finance to predict stock market trends; implemented learning tabs/quizzes to imbue confidence in new investors

PUBLICATIONS

- "Endothelial Cell Integrin Beta4 Knockout Attenuates LPS-Induced Murine Acute Lung Injury." *American Thoracic Society International Conference*. Published [May 2019](#)
- "Prognostic Roles of the Expression of Sphingosine-1-Phosphate Metabolism Enzymes in Non-Small Cell Lung Cancer." *Translational Lung Cancer Research Journal*. Published [Oct 2019](#)
- "Real-Time Extended Psychophysiological Analysis of Financial Risk Processing." *PNAS*. Pending

SKILLS & ACTIVITIES

Technical Skills: Python; Javascript, TypeScript, HTML/CSS, Alt-Flux, ReactJs, Node, Express JS, Mongoose, MongoDB, LaTeX, Pandas, AWS

Languages: English – Native Fluency; Chinese – Native Fluency

Activities & Interests: MIT Varsity Basketball; Acapella (MIT Resonance); Sorority Social Chair (AXO); Guitar; Chess; Competitive Programming; Hackathons; TAMID business club

Selected Awards: 1st place Illinois Economic Challenge; 17th place National Economics Challenge (2020); 4th place DECA area in Quick Serve Restaurant Management; Qualified for DECA State (2020); NMSQT Finalist; Seal of Bilingualism; Illinois State Scholar; National Honor Society