

# Matt McManus

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## EDUCATION

### Massachusetts Institute of Technology

Bachelor of Science in Computer Science and Mathematics

Cambridge, MA

Sept. 2019 – May 2024

- **Activities and Societies:** MIT Pokerbots, MIT Squash Team, Phi Kappa Theta Fraternity, MIT Bitcoin Club
- **Relevant Coursework:** Software Construction, Software Systems for Data Science, Fundamentals of Statistics, Graduate Machine Learning, Probability and Random Variables, Fundamentals of Programming, EECS via Interconnected Embedded Systems

## WORK EXPERIENCE

### Delphi Digital

Quantitative Analyst

Cambridge, MA

May 2022 – Aug. 2022

- Incoming Quantitative Analyst

### Performance Trust Capital Partners

Trading Intern

Chicago, IL

Jun. 2021 – Aug. 2021

- Developed Python application to parse thousands of financial lists from textual data sources
- Automatically mapped application to Bloomberg's API to identify new mortgage-backed securities
- Aggregated and cleaned a dataset of over 12,000 mortgages to identify new trading opportunities

### Neomantra

Software and Trading Strategy Developer

Greenwich, CT

Mar. 2020 – Feb. 2021

- Researched a trading strategy by analyzing the correlation between 10,000 intraday stock prices and closing cross
- Engineered a script to monitor stock splits, earning reports, and daily fees for different U.S. equities
- Built an automated report by querying fee data across the major U.S. Market Exchanges such as NYSE and NASDAQ

### Hosta Labs

Software Engineer Intern

Cambridge, MA

Jan. 2020

- Configured the UI of the Hosta Labs iOS app and connected the database of user logins to Hosta's server
- Researched competitors in the automated 3D modeling space and presented a business strategy to investors

## RESEARCH EXPERIENCE

### MIT Computer Science and Artificial Intelligence Laboratory (CSAIL)

Research Assistant

Cambridge, MA

May. 2022 – Present

- Simulating agents capable of learning (via different ML techniques) and cooperating (via direct or implicit communication)
- Assisting in the development of the cyber security network simulator that we will use in our research

### Massachusetts Institute of Technology

Research Assistant

Cambridge, MA

Feb. 2022 – Present

- Analyzing recent developments in how Transparency and Portfolio Trading is transforming the Corporate bond market
- Performing traditional Quantitative methods and strategies from newly released data sources

### Graduate Machine Learning (6.867)

Student

Cambridge, MA

Sept. 2021 – Dec. 2021

- Developed a novel algorithm for learning low-complexity solutions for interpolating deep neural networks via projection
- Designed, Implemented and Tested our projection algorithm which was able to outperform most current models

## EXTRACURRICULAR EXPERIENCE

### MIT Pokerbots

President, Head Instructor

Cambridge, MA

Sept. 2020 – Present

- Led team of seven member to successfully run four-week computer poker class and competition for 250 MIT and Harvard undergrad/grad students. Managed operations and developed 2022 game engine.

### Phi Kappa Theta Fraternity

President, Recruitment Chair

Cambridge, MA

Sept. 2019 – Present

- Manage executive members and serve as a liaison between the fraternity, MIT administration and the City of Boston
- Coordinated a team of over 50 members to host nearly 30 events across MIT's campus and the greater Boston area

### MIT HKN

Undergraduate Tutor

Cambridge, MA

Sept. 2019 – Present

- Individually tutor over a dozen students in Intro to Computer Science and Introduction to Algorithms classes
- Assist students in debugging homework code while demonstrating proper principles of software engineering

### MIT Squash Team

Member

Cambridge, MA

Sept. 2019 – Present

- Achieved a National Team Ranking of 16<sup>th</sup> in the U.S. during the 2019 – 2020 season
- Ranked among the Top 10 Squash Players in the U.S. throughout junior career

## SKILLS AND INTERESTS

- **Skills:** Python | Java | C++ | GoLang | SQL | R | Bloomberg | VBA | Excel & PowerPoint | Data Analysis | Research
- **Interests:** Basketball | Frisbee | Running | Artificial Intelligence | Automation | Photography | Cryptocurrency