

# Matt McManus

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## EDUCATION

### Massachusetts Institute of Technology

Bachelor of Science in Computer Science and Mathematics

Cambridge, MA

Sept. 2019 – May 2023

- **Activities and Societies:** MIT Pokerbots, MIT Squash Team, Phi Kappa Theta Fraternity, MIT Bitcoin Club
- **Relevant Coursework:** Graduate Machine Learning, Design and Analysis of Algorithms, Fundamentals of Programming, Software Systems for Data Science, Representation and Inference in AI, Probability and Random Variables, Fundamentals of Statistics

## WORK EXPERIENCE

### 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

### Blockchains For Schools

Sponsorship Coordinator

Cambridge, MA

Oct. 2019 – Mar. 2020

- Assisted in the organization of the first introductory-level blockchain-focused hackathon open to high school students
- Raised over \$40k in sponsorships from industry partners like Microsoft, Citigroup, and The Ethereum Foundation

## RESEARCH EXPERIENCE

### Graduate Machine Learning (6.867)

Researcher

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

### MIT Sloan School of Management

Research Assistant

Cambridge, MA

Sept. 2019 – Jan. 2020

- Analyzed consumer preference data to create quantitative metrics that were used to understand consumer psychology
- Compared consumer sentiment between traditional and automated wealth management solutions

## EXTRACURRICULAR EXPERIENCE

### MIT Pokerbots

Head Instructor, Treasurer

Cambridge, MA

Sept. 2020 – Present

- Direct a coding competition where participants learn machine learning concepts to create a bot capable of playing poker
- Personally meet with industry partners to campaign for over \$70,000 in company sponsorships for competition prizes

### 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