

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, 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

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

Recruitment Chair

Cambridge, MA

Sept. 2019 – Present

- Managed a budget of over \$25,000 to create a week-long recruitment period to attract new members
- 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 16th 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