Niles Liu

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EDUCATION

Massachusetts Institute of Technology   **Cambridge, MA**

Candidate for B.S. in Mathematics & Computer Science (18-C), GPA: 5.0 / 5.0   *Expected: May 2026*

- **Relevant Coursework:** Computability and Complexity Theory, Design and Analysis of Algorithms, Introduction to Machine Learning, Discrete Mathematics for Computer Science, Partial Differential Equations, Linear Algebra, Numerical Analysis, Real Analysis, Introduction to Inference

PROFESSIONAL EXPERIENCE

Software Intern   **Cambridge, MA**

Burmester and Vogel Ltd.   *January 2024–Present*

- Developed a machine learning model to digitize a family of documents with varying formats
- Created multiple models to handle the extreme diversity of Statement of Facts from around the world
- Pioneering competitive document digitization methods and software in the trillion dollar industry of shipping

Code Development Consultant   **Tewksbury, MA**

Corvia Medical   *January 2024–Present*

- Developed and optimized code for the analysis of clinical trial data, utilizing statistical analysis techniques
- Implemented clear and concise documentation for future reference and collaboration
- Worked on establishing techniques for clinical data analysis with potential to revolutionize the medical field

Teach Assistant: Chemistry, Linear Algebra   **Cambridge, MA**

MIT Experimental Study Group (ESG), MIT Computer Science (Course 6)   *September 2023–Present*

- Teaching Assistant for General Chemistry (ES5.111) during Fall '23, Linear Algebra (ES18.06) during Spring '24 - Fall '24, and Grader for Introduction to Inference (6.3800) Fall '24
- Leads a weekly problem solving session and grades weekly problem sets, programming labs, and exams

Senior Consultant / Client Sourcing Lead   **Cambridge, MA**

MIT Consulting Group (MCG)   *February 2023–Present*

- Case Team Lead (Spring '24) for a Fintech startup looking to provide a pipeline between US and Caribbeans
- Project included business development, US side marketing, client side UI
- Served as point of contact, mainly worked on problem overview, task delegation, and front end development

Legal Assistant   **Bedford, MA**

3 Square Law Office   *September 2018–Present*

- Conducting patent search for preliminary patentability, freedom-to-operate analyses, and trademark due diligence
- Participating in patent filing, prosecution, and patent due diligence for corporate merger & acquisition

PERSONAL PROJECTS

Personal Code Development   *May 2024–Present*

- Developed script to track various stock funds, working on ML algorithm to 'steal' and optimize strategy
- Developed algorithm to optimize global location selection given addresses and corresponding weights
- A pseudo 0-1 knapsack applied to real life to minimize radius for a given weight and maximize weight for a given radius

Personal Day Trading Account   *May 2022–Present*

- Trading the ThinkorSwim platform and programming in ThinkScript, with ~70% small scale trading success
- Working on autonomously detecting trading windows and developing more relevant technical indicators and setups

EXTRACURRICULARS

MIT Foil Fencing Team   *September 2022–Present*

- MIT Men's Foil Squad Captain (2023 - 2024) & Acting Men's Foil Squad Leader Captain (2022 - 2023)
- USFCA All-Academic Team (2022 - 2023) & USFCA Scholar of Distinction (2022 - 2023)

MIT Music Programs   *September 2022–Present*

- Member of MIT Symphony (September 2022 - January 2023) & MIT Chamber Music Society (February 2023 - Present)
- Received MIT Emerson / Harris Private Study and Performance Scholarship (September 2022 - Present)

ADDITIONAL SKILLS & CERTIFICATIONS

- **Skills:** Leadership, Project Management, Problem Solving, Azure, Docker, Python, HTML, CSS, Data Analysis, Machine Learning, Data Visualization
- **Certifications:** CITI Program for Human Research: Biomedical Research Investigators Course Completion