Hadrian Fratarcangeli

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EDUCATION

Master of Science Candidate: Applied Mathematics and Statistics, Stony Brook University Bachelor of Arts: Mathematics and Computer Science, Hamilton College

Aug 2025 — Dec 2026 Aug 2021 — May 2025

Cumulative GPA: 3.77 | NESCAC All-Academic Football Team

EMPLOYMENT

Al Expert Trainer

Data Annotation

June 2025 — Present

Remote

• Generate coding prompts for Large Language Models (LLM's) coupled with codebases for testing model correctness, instruction following, and efficiency.

Write solutions to coding prompts and evaluation reports for the LLM to learn from.

Informational Technology Intern

Oppenheimer & Co. Inc.

May 2024 — Aug 2024

New York, NY

• Developed and optimized backend endpoints for the financial advisor platform, enhancing system performance and user experience.

• Implemented unit tests to ensure the reliability and functionality of new and existing code.

- Wrote SQL queries to retrieve and analyze data from company databases, supporting backend development and ensuring data accuracy.
- Participated in stand-ups and code reviews using the Agile development process.
- Led winning intern team on an equity research project, analyzing market data to develop a diversified portfolio that we presented to a board of managing directors.

Computer Science Teaching Assistant

Hamilton College

Aug 2022 — May 2025

Clinton, NY

- · Supported students in understanding and completing coding labs.
- Provided guidance on programming concepts, debugging, and problem-solving.

Client Success Intern

May 2022 — Aug 2022, May 2023 — Aug 2023

Predictive Success Corporation

Whitby, Ontario, Canada

 Established a client sales performance map in Excel to evaluate a sales department based on proprietary Predictive Success metrics.

PROJECTS/EXPERIENCE

LSTM-MLP Option Pricer

July 2025

 Developed a LSTM-MLP hybrid model using PyTorch to better forecast option value by integrating sequential and dense layers.

CUSUM Change Point Detection Algorithm

July 2025

• Created an interactive Streamlit application to detect change points in financial time series using CUSUM methodology with kernel-based and likelihood-based methods.

Monte Carlo Option Pricer

June 2025

• Simulated risk-neutral asset paths using both Geometric Brownian Motion and Heston stochastic volatility to capture market dynamics for option pricing.

Psi Upsilon Undergraduate Endowment Committee

Dec 2023 — May 2025

 Served as a member on the student-led financial committee that manages the endowment of the fraternity.

NFL Big Data Bowl 2024

Nov 2023 — Jan 2024

• In the NFL's annual competition, implemented machine learning techniques on frame-by-frame data in R to develop an influence metric for defensive players on each play.

ACTIVITIES

Hamilton College Football, *Captain* Psi Upsilon Psi Chapter, *President*

Dec 2023 — Nov 2024

Jan 2024 — Dec 2024

SKILLS

Tools and Languages Interpersonal Python, C++, R, SQL, PyTorch, NumPy, Pandas, Git, Scikit-learn, Excel, Łack Leadership, Teamwork, Responsibility, Dependability, Flexibility