Allen L. Zagorodnyuk

(917) 743-9905 | alz4467@nyu.edu | LinkedIn | Website

SUMMARY

Recent mathematics graduate with an interest in finance and algorithmic trading. Seeking an entry-level position on the buy-side, developing quantitative trading strategies, and researching market opportunities.

EDUCATION

New York University   **New York, NY**
Bachelor of Arts in Mathematics   May 2025
- **Minors**: Computer Science and Economics Theory
- **Relevant Coursework:** Mathematical Finance, Linear Algebra, Game Theory, Statistics For Business & Forecasting Models, Advanced Micro Theory, Numerical Analysis
- **Relevant Activities:** Business Analytics Club, Finance Society, Quantitative Finance Society

WORK EXPERIENCE

ATP One Services   **New York, NY**
Finance Assistant   Aug 2022 - May 2025
- Managed and analyzed monthly financial statements by monitoring and entering transactions.
- Ensured data integrity and optimized data accuracy, streamlining reporting processes

Extern: Energy Innovation Capital   **New York, NY**
Research Analyst   Sep 2024 - Oct 2024
- Conducted market analysis to identify trends and growth opportunities within the hydrogen energy market.
- Synthesized industry research findings into a compelling investment presentation, emphasizing strategic, viable, and scalable growth potential.

JM Learning   **New York, NY**
Office Manager   Sep 2020 - Apr 2022
- Directed and led data operations team, which implemented Excel tools to manage course sales and success.
- Promoted from Intern to Front-Desk and then to Office Manager by surpassing performance expectations.

FINANCE PROJECTS

Algorithmic Trading Strategies - Project (Python and Excel)   2025
- Used data from Google Finance and Yahoo Finance's website to develop several testing models focusing on momentum, reversion, sector specificity, and seasonality.
- Data was gathered over a 2-year period and focused on scheduled Index Rebalancing events across the S&P 400, S&P 500, and S&P 600.
- Backtested strategies using Pandas and Numpy, and presented my findings through an investment summary.
- Results indicated that trading the S&P 600 over the sector-specific trading strategy generated the largest return.

Portfolio Optimization - Project (Excel)   2024
- Modeled a multi-asset portfolio using monthly price data from 2016 to compare an optimized index fund portfolio vs completely investing into AAPL over the same time frame.
- Used Solver to create an Optimal Portfolio and maximize the Sharpe Ratio.
- Findings were presented as an investment summary and indicated that AAPL was a better investment.

SKILLS & CERTIFICATIONS

Technical: Python, Excel, C++, SQL
Certifications: Securities Industry Essentials Exam - FINRA