

# Allen L. Zagorodnyuk

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## SUMMARY

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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

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### 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

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### ATP One Services

New York, NY

*Finance Operations Analyst*

Aug 2022 - May 2025

- Provided day-to-day operations support, working closely with staff accountants and across multiple offices
- Responsible for tracking financial statements using Excel, ensuring accuracy throughout each reporting period

### Energy Innovation Capital

New York, NY

*Research Analyst Extern*

Sep 2024 - Oct 2024

- Conducted market analysis to identify trends and growth opportunities within the hydrogen energy market
- Synthesized and presented industry research, emphasizing a strategic and potential investment for a start-up within the hydrogen energy market

### JM Learning

New York, NY

*Office Manager*

Sep 2020 - Apr 2022

- Directed and led a team of four, responsible for managing client relations, client integrations, and sales
- Personally responsible for researching and implementing systems to help streamline office operations

## FINANCE PROJECTS

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### Unsupervised Learning: K-Means N-Clustering - Python

- Tested the additions of a Stochastic Oscillator, a Skewness/Kurtosis, and an MFI feature onto an existing K-Means N-Clustering trading strategy
- Modeled returns focusing on S&P 500 stocks, tested across a different stock universe over a 13-year period
- Results indicated that a Rolling Skewness and excess Kurtosis feature tested over a smaller stock universe generates the most profitable return compared to the initial strategy.

### Algorithmic Trading Strategies: Index Rebalancing - Python and Excel

- Used data from Google and Yahoo Finance 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

## SKILLS & CERTIFICATIONS

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**Technical:** Python, Excel, C++, SQL

**Certifications:** Securities Industry Essentials Exam - FINRA