

# Nathaniel Yee

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## EDUCATION

### Northeastern University

**Boston, MA**

**Major:** *B.S. Data Science and Business Administration: Finance*

*Expected April 2025*

- **GPA:** 3.51/4.0 (DMSB Deans List)
- **Relevant Coursework:** Financial Management | Financial Accounting | Data Science 3500 | Business Statistics | Finance and Investments | Discrete Structures and Mathematics |
- **Clubs & Activities:** Finance for the Community | Data Club | NU Systematic Alpha | Downhillers Ski Club | Phi Gamma Delta

## RELEVANT EXPERIENCE

### John Hancock

**Boston, MA**

*Actuarial Intern*

*January 2024-Present*

- Compiled and analyzed data to generate Daily Production Reports (DPR), ensuring accuracy and timeliness in tracking key performance indicators for the US Insurance Finance team.
- Developed comprehensive revenue reports utilizing Excel and other analytical tools to provide insights into financial performance, aiding decision-making processes on large scale transactions of ~\$1 million daily.
- Implemented methods of streamlined processes for data collection and analysis using VBA, resulting in 25% increased efficiency and productivity within the team.

### BAY SPECIALIZED TAX SERVICES

**Remote**

*Business Development and Marketing Intern*

*June 2023-August 2023*

- Founded and spearheaded a dynamic marketing team, driving strategic initiatives and overseeing all marketing efforts.
- Developed and executed innovative marketing campaigns across Instagram and TikTok increasing impressions by 50%.
- Executed community outreach initiatives aimed at educating and empowering 50+ local business owners about the valuable benefits of the Employee Retention Credit (ERC).
- Employed research and analytical skills to assess the eligibility of local businesses for the ERC, utilizing advanced tools like HLA (High-Level Analysis) for comprehensive evaluation.

### STUDENT ADVISORY COUNCIL FOR NASSAU COUNTY D.A. OFFICE

**Mineola, NY**

*Council Representative Intern*

*September 2021-June 2022*

- Collaborated with representatives from the Nassau County District Attorney's Office to discuss local crime issues and identify solutions to manage and reduce damages in Nassau County by approximately 25%.
- Promoted awareness of local crime issues and shared information with fellow students and community leaders.

## ACTIVITIES & INVOLVEMENTS

### Northeastern Systematic Alpha

**Boston, MA**

*Quantitative Researcher*

*September 2023-Present*

- Applied quantitative analysis techniques to develop factor models using Python and SQL.
- Conducted thorough back testing and validation of factor models to assess performance and refine model parameters, ensuring accuracy and reliability in financial forecasting.

### PHI GAMMA DELTA, NU ETA CHAPTER

**Boston, MA**

*Creative Chair*

*January 2023-Present*

- Crafted compelling social media posts that drove a 150% increase in user engagement and expanded reach by 24.5%, effectively connecting with a wider audience.
- Uphold and improve the reputation of Phi Gamma Delta within the Northeastern and Boston area through principles of friendship, morality, service, and excellence.

## TECHNICAL PROJECTS

### [QUANTITATIVE ANALYSIS ON REDDIT SENTIMENT'S IMPACT ON MARKET VOLATILITY AND RETURNS](#)

- Conducted sentiment analysis on Reddit's r/wallstreetbets data and Yahoo Finance stock price data for a year, revealing no statistically significant correlation between sentiment scores and overall portfolio returns (p-values > 0.16).
- Identified a significant increase in market volatility (p-value < 0.05) when negative sentiment was expressed on r/wallstreetbets, suggesting a possible influence of sentiment on volatility trends.
- Analyzed Reddit sentiment's impact on Sharpe Ratio, a risk-adjusted return metric, finding no significant correlation with sentiment scores (p-values > 0.16), implying sentiment's limited effect on risk-adjusted returns.

## CERTIFICATIONS AND SKILLS

**CERTIFICATIONS:** Bloomberg Market Concepts (BMC) | Bloomberg ESG |

**SKILLS:** Pandas | Python | Seaborn | Scipy | NLTK | Figma | Microsoft Suite | HTML | CSS | Git/Github | SQL | VBA

**INTERESTS:** New Technology | Chess | Photography | Keyboards | Weightlifting and Running | Piano, Clarinet, and Ukulele | Reading |