Nathaniel Yee

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EDUCATION

Northeastern University **Boston, MA**
B.S. Data Science and Business Administration: Finance *Expected April 2026*
- **GPA:** 3.6/4.0 (DMSB Deans List)
- **Relevant Coursework:** Finance and Investments | Financial Management | Financial Accounting | Data Science 3500 | Business Statistics | 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*
- Compile, refine, and analyze data to generate Daily Production Reports (DPR), utilizing Excel, PowerBI, and Microsoft SQL Server, ensuring accuracy and timeliness in tracking key performance indicators. Providing insights into financial performance, business segment financial risk, and aiding decision-making processes for the U.S. CFO and CEO, on transactions of ~$100 million daily.
- Model Death Benefit Commutation Values for payout annuities utilizing Excel, integrating effective annual interest rates, fixed income payments, and lapse schedules.
- Implemented methods of streamlined processes for data cleaning, processing, and analysis using VBA, resulting in 100% increased efficiency on Quarterly Contractual Service Margin (CSM) Reconciliation US Brokerage reports.

BAY SPECIALIZED TAX SERVICES **Remote**
Business Development and Marketing Intern *June 2023 - August 2023*
- Founded and spearheaded a dynamic social media marketing team, driving strategic advertising initiatives across social media platforms.
- Developed and launched innovative marketing campaigns across Instagram and TikTok accumulating +10,000 views and 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*
- Apply quantitative analysis techniques to develop factor models using Python and SQL.
- Conduct 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 utilizing Adobe Photoshop and Express driving an increase of 150% in user engagement and expanded reach by 30.6%, 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 ($p\text{-value} < 0.05$) 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

CERTFIFICATIONS: Bloomberg Market Concepts (BMC) | Bloomberg ESG |
SKILLS: Pandas | Python | Seaborn | Scipy | NLTK | Figma | Microsoft Suite | HTML | CSS | Git/Github | SQL | VBA |
INTERESTS: Web3 Technology | Chess | Photography | Keyboards | Weightlifting and Running | Piano, Clarinet, and Ukulele | Reading |