

ARYAMAN NAGPAL

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EDUCATION

New York University, College of Arts and Sciences, New York, NY

May 2026

B.A., Double Major in Economics & Mathematics (Honors), and Computer Science; GPA: 3.854

Dean's List: 2022-23

Organizations: Society for Industrial and Applied Mathematics (Member), Stern Investment Analysis Group (Member)

Relevant Coursework: Financial Accounting • Microeconomic Analysis • Advanced Macroeconomics • Econometrics

Honors Calculus III • Honors Linear Algebra • Data Structures

RELEVANT EXPERIENCE

Quantitative Trading Analyst, NYU Mathematical Finance Group

Feb 2024 – Present

- Gaining experience in developing quantitative algorithms for trading derivatives, currencies, and commodities
- Analyzing implementations of pricing models for both vanilla securities and exotics such as barrier and digital options

Quantitative Research Intern, New England Investment Consulting Group • ([GitHub](#))

Jan 2024 – May 2024

- Spearheading the proposal, refinement, and backtesting of a cointegrated pairs trading strategy
- Implementing Python libraries (numPy, pandas, statsmodels, scikit-learn) to develop and optimize quantitative models
- Designed an original indicator for pairs trading, optimizing trade timing for improved risk-adjusted performance
- Created a dynamic backtesting framework delivering market-beating returns across equities and cryptocurrencies

Research Analyst Intern, OmniScience Capital

Jun 2023 – Aug 2023

- Developed the first index tracking chemical companies in India by designing a backtesting model in Excel
- Conducted in-depth market research for investment idea generation in emerging technological industries
- Executed CAPM modeling for detailed portfolio analysis and employed risk metrics (Beta, VaR, cVaR) for benchmarking

Structured Credit Portfolio Intern, Astra Management

May 2021 – Oct 2021

- Delivered 3 ad-hoc research reports, providing insights on the impact of COVID-19 on distressed fixed-income assets
- Performed extensive historical analysis of past crises to formulate strategic recommendations for Additional Tier 1 bonds

LEADERSHIP EXPERIENCE

Online AP Calculus AB/BC Instructor, The Princeton Review

Sep 2023 – Present

- Instructing classes of 20-25 high school students, resulting in significant improvements in Advanced Placement exam scores

President and Treasurer, Habitat for Humanity, Singapore American School

Apr 2020 – May 2022

- Led the process of fundraising from ideation to execution, raising over \$4000 in one year

Captain, Varsity Cross Country, Singapore American School

Aug 2021 – May 2022

- Achieved team gold in the Interscholastic Association of South-East Asian Schools (IASAS) competition in Manila

HONORS AND AWARDS

Cubist Systematic Strategies Hackathon Team Gold, Point72

Apr 2024

- Developed a CLI in Python that formulates real-time tradeable contracts for MTA subway train timings (\$10k prize)

National Merit Scholar, United States National Merit Scholarship Corporation

Feb 2022

Summa Cum Laude (GPA: 4.54/4), Singapore American School

May 2022

1600 SAT (Perfect Score), College Board

Aug 2021

CERTIFICATIONS AND SKILLS

Term-Structure and Credit Derivatives • Optimization Methods in Asset Management, Columbia University

Aug 2023

Python for Data Science, AI & Development, IBM

Jun 2023

Bloomberg Market Concepts • Bloomberg Environmental Social Governance

Jun 2023

Computer: Java, Python, C, SQL, R, Microsoft Excel, Bloomberg Terminal

Languages: English (Native), Spanish (Working proficiency), Hindi & Marathi (Elementary proficiency)