

Jacob Ye

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EDUCATION

Cornell University – Dyson School of Applied Economics and Management

B.S. Applied Economics and Management (Finance), Computer Science Minor

Ithaca, NY

Prospective Start Fall 2024

Boston College – College of Arts and Sciences

B.A. in Economics, B.A. in Computer Science, Finance Minor

Chestnut Hill, MA

Fall 2022 - Spring 2024

• **GPA:** 3.85 / 4.00

• **Honors:** Dean's List First Honors, American Invitational Math Exam with Distinction

• **Coursework:** Probability Theory, Statistics, Data Structures & Algorithms, Multivariable Calculus, Linear Algebra, Macroeconomics, Microeconomics, Econometrics, Financial Accounting, Statistics, Formal Methods

WORK EXPERIENCE

Boston College Economics Department

Research Assistant – Inflation Initiative

Chestnut Hill, MA

Feb 2024 – Present

- Leading web scraping and data cleaning efforts with Python, ensuring accuracy and reliability for further analysis.
- Developing an image to text recognition software for consolidating per unit prices of supermarket goods.

Boston College Computer Science Department

Teachers Assistant - Logic & Computation

Chestnut Hill, MA

Jan 2024 - May 2024

- Conducted office hours for class of 50 students to provide general and tailored support and on course materials.
- Created a cohesive and scalable grading system with other TA's to provide accurate and fast feedback.

Takeda Pharmaceuticals

Business Excellence Intern

Cambridge, MA

Summer 2023

- Designed an automated subscription management system for over \$200,000 subscriptions to software services.
- Leveraged organizational software Tableau, to manage company inventory, reflect accurate purchase expenses, and optimize efficiency resulting in yearly company savings of \$50,000.

Battery Global Advisors

Wealth Management Intern

Boston, MA

Summer 2022

- Collaborated with an analyst team to conduct in-depth market research on hedge funds with over 15bil AUM, to help align investment decisions with clients' objectives.
- Researched the macro & micro effects of Russia's Invasion of Ukraine, formulated strategic recommendations to mitigate its portfolio risk. Presented findings to a 5 member directorial team.

PROJECTS

Formal Proof of Triple Ion System | Coq |

May 2024

- Model of three-ion molecule system within Coq. Formal proof of correctness in six specific bond configurations.

Algorithmic Trader | Python |

March 2024

- Unsupervised machine learning trading strategy using S&P data. Applied K-means clustering algorithm.

SKILLS & INTERESTS

Languages: English (Native), Mandarin (Fluent)

Technical Skills: Python, Java, Coq, SQL

PUBLICATIONS

- Qatar's World Cup: Boon or Bust? *Jacob Ye*, **Stanford Economic Review**, 05 Jun 2023,

<https://stanfordeconreview.com/2023/06/05/commentary-qatars-world-cup-boon-or-bust/>

- How does the World Cup affect U.S. participation in soccer, an analysis of the 2006, 2010, and 2014 World Cups, *Jacob Ye*, **Brown Journal of Philosophy, Politics, and Economics**, Spring 2024