

Jacob Ye

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EDUCATION

Cornell University - Dyson School of Applied Economics and Management **Ithaca, NY**
B.S. Applied Economics and Management (Finance Concentration) May 2026

GPA: 4.00/4.00

Relevant Coursework: Strategy, Finance, Managerial Accounting, Behavioral Economics

Boston College – College of Arts and Sciences **Chestnut Hill, MA**
B.A. in Computer Science, B.A. in Economics, Finance Minor (transferred) Sept 2022 - May 2024

GPA: 3.85/4.00

Relevant Coursework: Probability Theory, Statistics, Data Structures & Algorithms, Logic and Computation, Linear Algebra, Multivariable Calculus Macroeconomics, Microeconomics, Econometrics, Formal Methods

TECHNICAL SKILLS

Languages: C++, HTML/CSS, Java, Javascript, Python, R, Rcoq, Solidity, SQL, Stata, Typescript

Frameworks: Flask, Django, React, Node

Developer Tools: Git, Github, Visual Studio Code, IntelliJ, Pycharm, Tableau, Manus

Libraries: Scikit-learn, Pytorch, TensorFlow, Keras, Pandas, NumPy, Matplotlib

WORK EXPERIENCE

Citigroup **New York City, NY**
Markets Quantitative Analysis Intern – Citi Velocity June 2025 - August 2025

- Creating a weighted logistic regression model to find signals in client behavior to generate sales leads.
- Applying machine learning methods on volatility data to predict 5-day PnL of delta-neutral equity derivatives.

Boston College Computer Science Department **Chestnut Hill, MA**
Research Assistant Jan 2025 - May 2025

- Built multilingual PDF analysis tool to detect and highlight language regions for OCR preprocessing.
- Developed OCR pipeline with Azure to convert glossed text PDFs into machine-readable formats.

Boston College Economics Department **Chestnut Hill, MA**
Research Assistant – Inflation Initiative Feb 2024 - May 2025

- Utilized OpenAI API and Manus AI to scrape and aggregate 10,000+ data sources to measure US consumption.
- Developed a MIDAS regression model using commodity data and PCE measures to create a daily inflation indicator with 96% R-squared accuracy.

Takeda Pharmaceuticals **Cambridge, MA**
Business Excellence Intern May 2023 - August 2023

- Designed an automated subscription management system for over \$200,000 subscriptions to software services.
- Leveraged Tableau to manage inventory and organize purchase expenses, resulting in \$50,000 yearly savings.

PROJECTS

Nike: Navigating Tariff Uncertainty | (1st place Cornell EY Case Competition) **Apr 2025**

- Delivered strategic recommendation focused on risk mitigation and backed by financial analysis.

Dscvr.ai | TypeScript, JavaScript, CSS (1st place Cornell AI Hackathon) **Feb 2025**

- AI-powered writing environment that gives curated instructions based on your knowledge base.

Revolutionizing Roblox | Rust, JavaScript (Node.js), Lua (1st place Harvard Hackathon) **Jul 2024**

- Developed platform for digital advertisers to get paid instantly and fairly based on performance.

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/>