Joseph Carlucci

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Availability: January - June 2025

Education

NORTHEASTERN UNIVERSITY, Khoury College of Computer Sciences — Fall 2023 - Present
Candidate for BS in Computer Science and Business (Finance Concentration) — Expected Spring 2027
GPA 3.9/4.0 | Dean's List (Fall '23, Spring '24)
Relevant Courses: Object-Oriented Design, Fundamentals of Computer Science 1 & 2, Discrete Structures,
Algorithms and Data, Introduction to Databases, Financial Accounting, Financial Management

Computer Knowledge

Languages:	Java, Python, SQL, HTML, CSS, JavaScript, LaTeX
Systems:	MacOS, Windows
Technologies:	Git, Jupyter, Pandas, NumPy, MatPlotLib, BigQuery, Polygon, Django, MYSQL

Work Experience

FINANCE RESEARCH — September 2024 - Present
Northeastern University — Boston, MA

- Leveraged Google BigQuery to query and analyze a dataset of over 7.5 million patents, enhancing research insights into patent similarity
- Ensured data integrity through validation and troubleshooting, supporting the reliability of research outcomes

ADMINISTRATIVE PROCESSES AUTOMATION — August 2024
Baystate Academy Charter Public School — Springfield, MA

- Developed a custom automation solution using Google Apps Script to streamline Google Form response email workflows from Google Sheets
- Implemented a data aggregation algorithm in Google Sheets using Google Apps Script to efficiently compile data for reliable annual reporting

Projects

ACCELERATE — May 2024 - Present
Startup Co-Founder

- Developed a responsive front-end, integrating Google Maps Address Autofill, Maps Static, and Drawing Manager APIs to automate quote criteria collection for landscaping companies
- Integrated Django backend with Auth0 for user authentication and authorization, and implemented a Django Database to store user data

STOCK PORTFOLIO MANAGER — June 2024 - July 2024

- Leveraged AlphaVantage API to retrieve real-time stock data and implemented a mock portfolio manager, utilizing Java Swing to create an intuitive user interface, runnable from a JAR file
- Implemented a Model View Controller (MVC) architecture to separate concerns and improve code readability

GUI TASK AUTOMATION — September 2023 - November 2023

- Utilized Python GUI packages to automate dynamic tasks by capturing screenshots, processing the images for data extraction, and programmatically controlling mouse movements

Extracurricular Experience

NORTHEASTERN STUDENT VALUE FUND — February 2024 - Present
Analyst — Boston, MA

- Completed semester-long junior analyst program, gaining experience in financial modeling, constructing DCF models, and conducting comprehensive market research
- Conducted in-depth research on an analyst team, identifying and pitching value stock investment opportunities to the fund- total portfolio value is approximately $270k of the university's endowment
- Aggregated fund's historical one pagers and ran a backtest on a basket trading strategy to use as a cash alternative in the fund's portfolio

NORTHEASTERN REV — September 2024 - Present
Member — Boston, MA

- Accepted into Fall '24 cohort of venture accelerator program, to work on AcceleRate Startup
- Participated in weekly workshops and mentorship sessions to develop entrepreneurial skills and refine business model, as well as give feedback to other startups in the program

Interests: Skiing, Algorithmic Trading, Entrepreneurship, Pizza Making, Kayaking