

# Gary J. Wang

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## Objective Summary

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Finance student studying computer science and statistics with a strong interest in applying technology within asset management. Experienced in using python, SQL, bash, and object-oriented programming principles to automate and enhance processes. Seeking highly technical role in risk management or portfolio management working in a small team.

## Education

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### Drexel University • Lebow College of Business

*Bachelor of Science in Business Administration*

Major: Finance • Minors: Computer Science & Mathematics

Philadelphia, Pennsylvania

*Anticipated Graduation: June 2025*

### Drexel Finance and Investment Group (DFIG) • Member

*August 2021 – Present*

- Participated in weekly meetings and networked with peers and industry practitioners working in financial services.
- Competed in a 3 month long portfolio competition with Drexel's Finance and Investment Group and placed top 5.

## Work Experience

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### BlackRock, Inc.

*Client Data Operations Analyst • Co-op*

Wilmington, Delaware

*September 2023 – March 2024*

- Developed and productionized a python script to automate file processing that improved ad hoc file processing and security modeling efficiency by 87.5% from 60 to 10 minutes and reduced weekly file escalations from risk clients.
- Performed data analysis across several BlackRock external risk client databases to identify and fix the root cause security data issues regarding mortgage backed securities and removed 5+ reoccurring dashboard escalations.
- Improved a command line tool with bash to clone multiple security setups simultaneously from BlackRock's central database to any private risk client database and removed the need input each field manually from the frontend.
- Maintained documentation for ETL pipelines and frequent dashboard escalations to improve request response rate.

### Bloomberg L.P.

*Equity Data Analyst • Co-op*

Princeton, New Jersey

*September 2022 – March 2023*

- Optimized data querying capacity by 24,900% scaling from 200 to 50,000 rows; totaled to 1,500,000 data points extracted by programming a python command tool using cursor mark pagination and Bloomberg's python API.
- Analyzed 9,000 US Tickers across 3 databases and corrected 150 tickers with inconsistent earning call dates by developing a script with Bloomberg's python query library and organized a weekly quality control check.
- Modeled 3% increase in earnings calls and shareholder meeting coverage for 2023 using python to extract 2022 coverage data from Bloomberg's database for aggregated data based on their respective time period categories.
- Handled 30+ daily requests within service-level agreement for live clients and internal stakeholders by collaborating with data vendors, software engineers, and other data teams across Bloomberg in AMER, EMEA, and APAC.

## Projects

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### Portfolio Optimization Tool • Python, Pandas, Numpy, Web API's

*December 2023*

- Utilized MarketStack and AlphaVantage web API's to collect 10-year historical monthly returns for U.S. equities.
- Employed object-oriented programming to build different types of portfolios based on a selected list of securities.
- Calculated expected return, standard deviation, sharpe ratio for each portfolio using the Treynor-Black Model.

### Bond Pricer Tool • C++, Python

*January 2023*

- Coded a command line tool that calculates the present value of a U.S. treasury bond given a CSV file as input.
- Implemented C++ concurrency library to calculate 100,000 under 1 second and printed values onto the terminal.

### FinCo Portfolio Competition • Due Diligence, Market Research

*June 2022*

- Conducted market research and created a discounted cash flow model to identify upside in Airbnb's stock.
- Final Return on investment for the portfolio was 1.41% and helped create a PowerPoint pitch deck presentation.

## Skills & Interests

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**Software:** MS Excel, MS Word, MS PowerPoint, Bloomberg Terminal, Aladdin, Aqua Data Studio, Jira, GitHub

**Technologies:** Python (*numpy, pandas, matplotlib*), SQL (*Postgres*), Bash Scripting, GNU/Linux, C, R, JavaScript, git

**Relevant Courses:** Risk Management, Data Structures, Machine Learning, Database Systems, Web Development

**Interests:** Philadelphia 76er's, Skiing, Jiu Jitsu, Arch Linux, Reading (*The Richest Man in Babylon, The Alchemist*)