

Sean Mullins

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PERSONAL PROJECTS

Reverse Momentum - [Website](#)

- Developed and implemented a quantitative trading strategy to test market efficiency and analyze the impact of major events on equity prices.
- Achieved a cumulative return of ~40% in 2023 and outperformed the S&P500 in 62% of the quarters since 2010.
- Leveraged the Robinhood API for automated trade execution, optimizing the strategy's implementation.

SongSpy - [Website](#)

- A Webapp that uses Machine Learning to identify artificially generated music – 1,000 audio files from YouTube trained using a Sklearn classifier to identify cloned artist's voices with 85% accuracy.
- Developed using Python (Flask) and deployed to PythonAnywhere.
- 1000 site hits on the first day with 100 article views.

PROFESSIONAL EXPERIENCE

OpenExchange Inc.

Aug. 2020 – Sept. 2022

Financial Analyst: Data Strategy

- Served as a SQL Server Database Administrator, managing a user-data database with 65 million rows, ensuring its smooth operation and performance.
- Streamlined Salesforce analytics by implementing BI tools and SQL, reducing report generation time by 50% and enhancing data visualization capabilities.

Greystone Monticello, LLC

Data Analytics

Oct. 2022 – May 2023

- Automated data input process into database by building a series of loan document scrapers with Python resulting in \$25,000 annual cost savings.
- Managed a portfolio of 12 loans, amounting to \$100 million in lending, with a focus on asset management and optimal profitability.

LEADERSHIP EXPERIENCE

D1 Men's Varsity Tennis Team, Boston College

Sept. 2016 – May 2021

- Selected as captain of the Boston College Tennis Team as a Junior, Senior, and 5th-year for the 2018-2021 seasons.
- Held a position in the starting line-up each season in the highly competitive ACC conference.

EDUCATION

Boston College, Chestnut Hill, MA

- Bachelor of Science of General Management in Finance Sept. 2016 – May 2020
- Master in Quantitative Finance Sept. 2020 – May 2021

TECHNOLOGIES

Proficient: Python, SQL, HTML, CSS, Seaborn, Matplotlib

Familiar: Flask, Heroku, Sci-Kit Learn, Scipy

Basic: Linux, PythonAnywhere, AWS

REFERENCES

Itay Silverberg, *Director, Data Analytics at Dwight Capital*

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