

Samuel Farrell

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Education

Northwestern University (Evanston, IL)

March 2023

Fintech Boot Camp

- Topics Covered: Financial Programming, Applied Machine Learning, Blockchain Technology

University of Illinois at Urbana-Champaign (UIUC)

May 2022

Bachelor of Arts in Economics, Minor in Business

- Relevant Coursework: Corporate Finance, Monetary Economics & Policy, Applied Econometrics

Harper College (Palatine, IL)

May 2019

Associate of Science

Skills

- Microsoft Excel: Formulas/Functions, Charting, Pivot Tables, Vlookups
- Statistics: Linear/Logistic Regression, Time Series Analysis, Forecasting
- Coding Languages: Python, R, SQL, Solidity
- Python Libraries: Pandas, Pyviz, Alpaca-Trade-API, SQLAlchemy
- Programming Software: Visual Studio Code, RStudio, pgAdmin, Git
- Artificial Intelligence: Scikit-learn, Neural Networks
- Trading Platforms: Thinkorswim, Tradingview

Experience

Interactive Brokers LLC (Chicago, IL)

February 2023 – Present

Compliance Analyst

- Reviewed internally generated alerts for potentially manipulative trading activity
- Uncovered notable trades in excess of \$25,000,000 through the above.
- Contributed to Ad-Hoc investigations for rare and unique forms of market manipulation.
- Drafted and Submitted Regulatory Filings with FinCEN in accordance with the Banking Security Act.
- Collaborated with upper management to resolve procedural inefficiencies.

Stock Trading (Personal)

January 2019 – April 2022

- Researched financial charting, candlestick patterns, and their use in assessing potential investments.
- Utilized proprietary scripting software to create technical indicators and contextualize market trends.
- Analyzed financial statements, risk assessments, and order book data to derive entry/exit strategies.
- Explored applications of all the above towards foreign exchange and cryptocurrency.
- Backtested trading strategies which outperformed the market by 10% on an annualized basis.

Projects

Machine Learning Trading Bot | <https://github.com/SamCFarrell/Machine-Learning-Trading-Bot>

- Created a baseline trading algorithm using SMA crossovers as trading signals.
- Trained various Machine Learning models to make trading decisions based on data from the above.
- Compared the cumulative returns of the Machine Learning strategies to those of the baseline and adjusted both to optimize performance.