

THOMAS McDOWELL

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Summary

Visionary Trading & Quantitative Modeling professional with a Bachelors in Physics from Rowan University, MBA from Alvernia University and FinTech Certificate from the University of Pennsylvania. Focused on bringing a unique set of academic skills, personal insight, and professional experience to designing and driving quality operations in economic technology and corporate profitability. Intuitive problem-solver with exceptional acuity for detail and technical skills in Python, SQL, data analytics & visualization. Diverse professional experience includes project development & execution, high-level communication within a corporate structure, and exceptional client interaction in various settings and formats. This combination of acute technical abilities and multifaceted interpersonal skills make me a broadly adaptable, teachable, and invaluable part of any professional team or project.

Technical Skills

IDE & Software: JupyterLab - VS Code - GitBash - Docker - pgAdmin 4 - Microsoft Office - Google Workspace

Languages: Python - SQL - Markdown

Libraries: Pandas - Matplotlib - PyViz - Plotly - SciKit-Learn - Qiskit - TA-lib

Areas: Machine Learning - NLP - AWS - Statistical Modeling & Forecasting - API - Blockchain - Quantum Computing

General: Public Speaking - Research & Reporting - Presentation Design - Client Interfacing - Project Management

Projects

Crypto Index & Sector ETF Analysis | <https://github.com/tjmcowelldotcom/PennGroupProject1>

- Retrieved OHLC data from KuCoin and Binance API for tokens to create a proposed "Crypto Index" to compare against other sector-specific ETFs. This project studied the market behavior of each identified sector compared to that of the market as represented by the index.
- Project leader; main code development and delegation of duties within the group of 4 contributors.
- Python code written in Jupyter Lab.

KuCoin Exchange Report | <https://github.com/tjmcowelldotcom/ResearchProject>

- Markdown project involving research into crypto exchange KuCoin's history, standing in the marketplace, and recommendations for future enterprises.
- Primary researcher and compiler for this project.
- Self-guided research written in Markdown language using VS Code.

Freqtrade Algorithmic Trading Bot | (*ongoing, unpublished*)

- Customized open-source algorithmic trading bot written in Python.
- Designing and backtesting strategies to include use of market indicators, arbitrage strategies, and price forecasting.
- Team-focused extracurricular project in cooperation with University of Pennsylvania bootcamp classmates.

Education & Credentials

FinTech Bootcamp Certificate: University of Pennsylvania, Philadelphia, PA - (In Progress)

Master of Business Administration: Alvernia University, Reading, PA - 2020

Licensed Professional Counselor: License Number PC011498, State Board SW, Pennsylvania - 2018

MS Clinical Counseling: Neumann University, Aston, PA - 2017

BS Physics: Rowan University, Glassboro, NJ - 2008

Employment

TJ McDowell LLC

2020-Current

Multifaceted personality-branded small business focused on mental health counseling and personal lifestyle consulting.

Key Accomplishments:

- Designed integrated platform for appointment scheduling, payments, and confidentiality-conscious video / audio counseling sessions.
- Sole Proprietor & Founder handling every aspect of business including web design & marketing, program development, and client engagement & retention.

Richard J Caron Foundation

2011-2020

Promoted into several roles at a world class behavioral health treatment center during a career spanning nearly a decade.

Key Accomplishments:

- Spearheaded alumni community app development initiative.
- Selected to build and maintain relations with alumni with high capacity for donorship.
- Regularly called upon to create & present lectures and speeches to the inpatient population as well as broader interested communities outside of the organization.