

BRANDON MONTIJO

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EDUCATION

Rochester Institute of Technology – Software Engineering BS, Economics Minor 08/2019 - 05/2024

Courses Design for Computing Systems, Software Testing, Engineering of SW Subsystems, SW Process and Project Mgmt, Econometrics, Analysis of Algorithms, Applied Statistics, Calculus II, Discrete Math

ABOUT ME

Languages Java, Python, R, C, Go, JavaScript, Ruby

Technologies GitHub, Git, TensorFlow, Keras, Linux, Ansible, VMware, Angular, Node.js

Interests Algorithmic Trading, Fitness, Piano, Baseball, Real Estate, Card Games, Chess

EMPLOYMENT

RIT Global Cybersecurity Institute (Rochester, NY)

Go Developer Intern 10/2020 - 12/2020

- Rebuilt backend infrastructure to automate creating and facilitating virtual environments for the Collegiate Penetration Testing Competition (CPTC)
- Used Ansible, VMware, NSX-T, vSphere, and Kubernetes alongside custom Go scripts

Northwestern Mutual (Milwaukee, WI)

DWCS Developer Intern 05/2018 - 08/2018

- Collaborated with Full Stack Engineers to implement, test, and maintain server applications that managed confidential client information
 - Helped design Monte Carlo Simulation to assist users in determining adequate saving strategies for retirement
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PROJECTS

Franklin - Algorithmic Trading Application

- A python application that performs stock trades through a brokerage firm based on robust trading algorithms
- Uses polygon.io to create and listen to a WebSocket for real time market data
- Implements various algorithms from Alpha to forecast real time market data and determine trends

CoinLink - Crypto Trading Application

- A python application that grants users the ability to perform crypto trades using a paper money account
- Implements various algorithms from Alpha to forecast BTC, ETC, and ADA

Alpha - Data Forecasting

- A python application that uses a machine learning library (TensorFlow) to forecast market data and display concurrent trends based on historical data
- Used a multi-layer Keras Long-Short Term Memory (LSTM) recurrent neural network and Convolutional Neural Network (CNN) to forecast select leveraged index funds based on volatility index and historical success

Mast - Market Forecasting

- A CLI application using Java to analyze historical data of total stock market index funds and use moving averages to output optimal buy and sell dates
- Creates multiple weighted moving averages to listen to and determine potential future market shifts

TargetInvest - Retirement Planner

- A JavaScript web application to help users plan for retirement by asking for desired retirement savings and outputting potential investment strategies