BRANDON MONTIJO

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EDUCATION

Rochester Institute of Technology – Software Engineering BS, Economics Minor — Expected 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

SKILLS

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)
- Utilized 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 client-side applications
- Combined Handlebars and Angular JS to design a Monte Carlo Simulation to let clients determine adequate retirement savings strategies based on historical data

PROJECTS

Franklin - Algorithmic Trading Application

- A python application that performs stock trades through a brokerage firm based on robust trading algorithms
- Implemented polygon.io to create and listen to a WebSocket for real time market data
- Utilized 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
- Constructed 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