

# 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, Engineering Secure Software, Web Engineering, UX and Design, SW Requirements and Architecture

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## EXPERIENCE

Amplify Education

DevOps Engineer • *Internship*

Jan 2022 - Aug 2022

- Designed a React based dashboard web application hosted on AWS S3 to view statuses of all internal terraform monorepository modules and infrastructure. Implemented a multi-view structure (datatable and treegrid) to monitor and debug individual directories as necessary by displaying console logs from internal tools.
- Developed an API connecting internal terraform tools to DynamoDB to store console logs from each command.
- Created an AWS lambda to monitor internal tools health and route users to different server instances if necessary, communicating with IAM, CloudWatch and Route53 to create alarms and health checks, as well as write metrics.
- Contributed to an internal tool controlling ECS clusters and other cloud-based server groups, configuring instance count based on time of day and traffic. Stored relevant state information in DynamoDB.
- Built an API connecting WAF and Datadog to block malicious IPs automatically within AWS infrastructure.

RIT Global Cybersecurity Institute (Rochester, NY)

Go Developer • *Part Time*

Oct 2020 - Dec 2020

- Rebuilt backend infrastructure to automate creating and facilitating virtual environments for the Collegiate Penetration Testing Competition (CPTC).
- Contributed to Go APIs and projects using Ansible, VMware, NSX-T, vSphere, Kubernetes, GCP and AWS.

Northwestern Mutual (Milwaukee, WI)

DWCS Developer • *Internship*

May 2018 - Aug 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.
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## PROJECTS

Franklin • *Stock Trading App*

- 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.

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.
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## SKILLS

Languages      Python, Java, C, JavaScript, Go

Tools            AWS, TensorFlow, ReactJS, Node.js, Keras

Interests        Piano, Baseball, Hiking, Cooking, Poker, Chess, Table Tennis