BRANDON MONTIJO

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EDUCATION

Rochester Institute of Technology – Software Engineering BS, Economics Minor   Expected 05/2024

EXPERIENCE

Amplify Education (Brooklyn, NY)

Software Engineer • *Internship*   Jan 2023 - Aug 2023

- Oversaw development and improvement of internal development tools; updated and added features to applications built in the previous internship, and built new dashboards, monitoring applications, and dev-sandbox tools.
- Created new AWS CodeBuild dashboard monitoring tool to store information (Postgres) about build executions and projects and allow users to automate build schedules, and intuitively presuggest mitigations to potential failures.
- Designed and implemented a preview environment based application, which provisions Docker containers in AWS ECS for new feature requests (branches), each running a section of a terraform monorepo. Spun up a frontend to easily access, modify, and monitor preview environments.

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 mono repository modules and infrastructure. Implemented a file-tree and database view 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*   Sep 2020 - Dec 2020

- Rebuilt backend infrastructure to automate creating and facilitating virtual environments for the Collegiate Penetration Testing Competition (CPTC).

PROJECTS

Stock Trading App • *Python (Tensorflow, Pandas), PostgreSQL*   April 2021 - Current

- A web socket application that performs stock trades through a brokerage firm based on robust trading algorithms, using polygon.io to create and listen to partially delayed market data. Experimented with a multi-layer Keras Long-Short Term Memory (LSTM) recurrent neural network, Convolutional Neural Network (CNN), and a series of moving averages to forecast select leveraged index funds based on volatility index and historical success.

AI Cost Estimation Tool • *Python (Tensorflow), React, PostgreSQL*   Aug 2023 - Current

- A comprehensive solution designed to transform the traditional cost estimation process into a highly accurate, efficient, and intelligent system powered by decision trees and gradient boosting machines.

SKILLS   Python, JS, React, Java, C, Go, AWS, PostgreSQL, Docker, TensorFlow, Node.js, Keras
INTERESTS   Piano, Cooking, Chess, Baseball, Golf, Hiking, Poker, Table Tennis