

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

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.
- Contributed to the development of a preview environment sandbox application, which provisions AWS ECS containers running a virtual sandbox for new feature pull requests in terraform mono repository. Designed and maintained UI to 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).
 - Contributed to Go APIs and projects using Ansible, VMware, NSX-T, vSphere, Kubernetes, GCP and AWS.
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PROJECTS

Stock Trading App • *Python*

- 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. 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 Python, JS, React, Java, C, Go, AWS, PostgreSQL, TensorFlow, Node.js, Keras

INTERESTS Piano, Cooking, Chess, Baseball, Golf, Hiking, Poker, Table Tennis