Max Tang

770-330-2265 · maxtang2001@gmail.com · linkedin.com/in/max-tang-gt/ · github.com/Tangerine2001

Education

Georgia Institute of Technology **Aug. 2020 – Present**
Bachelor of Science in Computer Science | Graduation Expected: May 2023 Atlanta, Georgia
Masters of Science in Interactive Intelligence | Expected: Aug 2023 - Aug 2024
GPA: 3.82 | Highest Honors | 2 Faculty Awards (4.0 GPA) | Dean's List | Zell Miller Scholarship

Experience

Principal Financial Group **May 2022 – August 2022**
IS OET Intern *Des Moines, Iowa*

- Spearheaded continuous integration/continuous deployment (CI/CD) solutions to develop infrastructure as code (IaC)
- Established best security and programming practices when building IaC on the cloud and guided peers to follow them
- Utilized AWS and Dynatrace to provide observability on 100's of applications and processes within the enterprise
- Moved 3 AWS applications from being provisioned on-prem to IaC hosted on AWS using Terraform and Github Actions
- Designed Grafana dashboards to look at company metrics to pinpoint root cause problems in enterprise solutions
- Developed event-driven automation tools in AWS Lambda functions to populate AWS RDS and improved mean time to resolution (MTTR) by 2%

ADVA **December 2021 – May 2022**
CS Professional Services Intern *Atlanta, Georgia*

- Built and deployed 2 Python solutions to facilitate customer interactions and increased product up-time by 5%
- Designed and created 1 base Python architecture deployed to the enterprise in the form of a Github template
- Learned complex networking concepts and wrote programs to communicate with satellites and satellite dishes

Projects

Twitch Chat Bot | *Python, AWS API Gateway, Lambda, DynamoDB, twitch.io, MySQL* **July 2022 - Present**

- Constructed a chat bot using Python that listens to Twitch API calls and appends information to a MySQL database
- Fully automated along with a GUI to abstract the bot and to offload workload to reduce compute resources by 20%
- Deployed a REST API using AWS in multiple environments while maintaining industry standard security practices
- Will containerize the program on deploy it on AWS EKS using Docker to have a monthly up-time of 99.5%

RLAgents | *Python, TensorFlow, OpenAI Gym, Jupyter Notebook* **October 2021 - Present**

- Employed TensorFlow to train deep reinforcement learning agents to play simple games better than a human
- Assembled over 40 neural network models spanning across 3 OpenAI gym instances with a total of 25 successful agents
- 5 agents out of 25 successful agents able to perfectly perform its task with no losses
- Established a deep Q-learning agent template model that can successfully generate its own models to solve problems
- Used common data science practices in analyzing the results of model training iterations, including using seaborn

SignLanguage.ai | *Python, TensorFlow, PyTorch, NLTK, Node.js, Heroku* **September 2021**

- Trained a machine learning (ML) model on 100's of videos to recognize various sign language words
- Expanded existing OpenVINO trained word base by >90 words, with ∼80% accuracy
- Researched Tensorflow and PyTorch to gain a deeper understanding of ML and Artificial Intelligence
- Technical lead for 1 of 15 teams selected to compete globally in the Transatlantic AI Hackathon

Skills

Languages: Python, C#, HTML/CSS, JavaScript, SQL, Matlab, ReactJS, Terraform HCL, Flutter, C
Certifications: AWS Cloud Practitioner, MTA: Software Development Fundamentals, Word 2016, Excel 2016
Developer Tools: AWS CLI/CDK, VS Code, JetBrains tools, Jupyter Notebook, Android Studio
Environments: DevOps, Agile, Waterfall

Relevant Coursework

- Artificial Intelligence
- Machine Learning
- Honors Algorithms
- Objects and Design
- Data Structures
- Computer Organization
- OO Programming
- Differential Equations