

Jonathan A. Giguere

jonathangiguere@gwu.edu | 703-850-9889 | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

EDUCATION

The George Washington University - Washington, D.C. Aug. 2019 - Dec. 2020
Master of Science, Data Science - GPA 3.97

Virginia Polytechnic Institute and State University - Blacksburg, VA Aug. 2014 - Jun. 2018
Master of Science in Business Administration, Business Analytics
Bachelor of Science, Business Information Technology

TECHNICAL SKILLS

Languages: Python, JavaScript, R, SQL

Machine Learning: Deep Learning, CNNs, RNNs, NLP, Computer Vision, Keras, Scikit-learn, TensorFlow, PyTorch

Tools: PyCharm, Jupyter Notebook, Sublime Text, Excel, AWS, GCP, Azure, MySQL, RStudio, GitHub, Google Colab

Visualization: D3.js, HTML, CSS, Google Charts, Tableau, Power BI, ArcGIS, Plotly

EXPERIENCE

Upwork - Remote Feb. 2021 - Present

Freelance Data Scientist

- Developing an automated cryptocurrency trading platform with the Coinbase API and AWS resources.
- Performed topic modeling analysis on survey data and visualized breakdown of responses for European client.

Trilogy Education Services - Remote Feb. 2021 - Present

Teaching Assistant – George Washington University Data Analytics Bootcamp

- Ensuring success of 40 adult learners developing skills in Python and R programming, databases, web visualization, BI software, and machine learning.
- Independently conducting tutoring sessions for three hours a week.

The George Washington University - Washington, D.C. Aug. 2020 - Dec. 2020

Graduate Teaching Assistant – Cloud Computing

- Provided technical assistance to 25 students using AWS for a graduate level Cloud Computing course.
- Independently graded student assignments, responded to complex queries, and provided feedback.

National League of Cities - Washington, D.C. Jan. 2020 – Aug. 2020

Data Science Intern

- Enriched research outcomes by developing automated pipelines that transformed gigabytes of census data into actionable insights, dashboards, and maps.
- Completed weekly end to end data analytics projects involving data acquisition, cleaning, analysis, visualization, and presenting findings to key stakeholders.
- Leveraged public data sources and APIs to guide CARES act fund allocation by characterizing vulnerable US populations and essential workers.
- Communicated technical concepts in a simple and concise way to non-technical managers.

Ernst & Young - Mclean, VA Aug. 2018 - Aug. 2019

Technology Risk Staff

- Analyzed data from business related IT systems and reported audit findings to top-level management.

PROJECTS

[Emotion Image Classifier](#) | Python Dec. 2020

CNN that classifies human emotion in images with 63% accuracy. Trained with 300,000 images on a cloud GPU.

[Airplane Sequence Prediction](#) | Python Dec. 2020

Implemented various RNNs for sequence prediction. Achieved 62% accuracy predicting the next airport a plane will visit from hundreds of potential destinations.

[Robinhood Popular Stock Visualization](#) | JavaScript Jul. 2020

A simple web application that shows the most popular stocks on the Robinhood investing platform over time. Visualizations were created with D3.js.

[AWS SageMaker Fraud Detection](#) | Python May 2020

Classifier that detects fraudulent credit card transactions with 99% accuracy. Trained with AWS Sagemaker.

CERTIFICATIONS AND ONLINE COURSES

Coursera

Aug. 2020

- Neural Networks and Deep Learning (9X7RBYDLFSTB)
- Structuring Machine Learning Projects (SAEWDUW9WB6Q)
- Improving Deep Neural Networks: Hyperparameters, Regularization & Optimization (3RUMFVMDX5ZK)

Project Management Institute

Apr. 2018

- Certified Associate in Project Management (#2205937)