Jonathan A. Giguere

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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

The George Washington University - Washington, D.C.   Aug. 2020 - Dec. 2020
Graduate Teaching Assistant – Cloud Computing
- Supported a graduate level Cloud Computing course by grading assignments and providing technical assistance to students using AWS.

National League of Cities - Washington, D.C.   Jan. 2020 – Aug. 2020
Data Science Intern
- Completed weekly end to end data analytics projects that involved data acquisition, cleaning, analysis, visualization, and presenting findings to key stakeholders.
- Enriched research outcomes by developing automated pipelines that transformed gigabytes of census data into actionable insights, dashboards, and maps.
- 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**](Emotion Image Classifier) **| Python**   Dec. 2020
A report that explores the effectiveness of classifying human emotion in images with deep learning approaches.

[**Airplane Sequence Prediction**](Airplane Sequence Prediction) **| Python**   Dec. 2020
A comparative analysis of LSTM, GRU, and seq2seq models used to predict the next airport an airplane will visit in a sequence.

[**Robinhood Popular Stock Visualization**](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**](AWS SageMaker Fraud Detection) **| Python**   May 2020
XGBoost classifier that detects fraudulent credit card transactions in an extremely imbalanced dataset.

CERTIFICATIONS

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)