

<https://www.linkedin.com/in/garygjg/>  
<https://github.com/InciteG>  
<https://clarify-gg.herokuapp.com>

8 Haywood Drive Markham, ON  
[garyg.5712@gmail.com](mailto:garyg.5712@gmail.com)  
(416)-841-9223

# GARY J. GUO

Data Science

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## EDUCATION

### The University of Texas at Austin

B. S. Biomedical Engineering  
Graduated May 2018

### BrainStation

Data Science Diploma  
Graduated June 2019

## TECHNICAL SKILLS

**Data Science** - Python, scikit-learn, TensorFlow/Keras, NLTK, Gensim, R, SQL, Git Bash

**Data Visualization** - Plotly/Dash, Tableau, Shiny, matplotlib/seaborn, ggplot

**Web Development** - Django, Flask, HTML5, Bootstrap CSS, Selenium, WordPress

## RELEVANT EXPERIENCE

### Job Market Clustering | <https://clarify-gg.herokuapp.com> | MAY 2019 - CURRENT

- Processed unstructured text with regular expressions, POS tagging and custom stop words
- Utilized TF-IDF, word embedding and LDA topic modeling to cluster jobs by skills
- Visualized clusters in 2-D space using t-SNE, MDS and PCA to compare models
- Developed web application dashboard in Plotly/Dash for presentation, deployed to Heroku

### MNIST Image Classification | <https://github.com/InciteG/MNIST> | MAY 2019 - MAY 2019

- Achieved 99.6% accuracy with data augmentation and learning rate reduction for CNN
- Evaluated a range of classification models including logit, KNN, DT, XGBoost, SVM, CNN
- Improved model performance using randomized cross validation to optimize hyper-parameters

### NBA Predictive Model | <https://github.com/InciteG/slamstats> | JAN 2019 - MAR 2019

- Forecasted win/loss outcome with logit model, improving on naive model by 11% overall
- Engineered time series features, injury impact and transformed data with PCA
- Developed web scraper that reads dynamically loaded data via Selenium web-driver

## EMPLOYMENT HISTORY

### Sequencing Technologist | *Prism Genomic Medicine* | MAY 2018 - DEC 2018

- Sequenced DNA and RNA samples for clinical research with Illumina NGS platforms
- Compiled bioinformatic data reports for data delivery to clientele using Excel
- Created web content for company website using HTML & CSS

### Freelance WordPress Developer | *Self-employed* | JAN 2019 - MAR 2019

- Developed website with Python web framework: Django and CSS Bootstrap
- Redesigned Wordpress template themes and objects with custom HTML & CSS additions

## ADDITIONAL INFORMATION

Languages: English, Chinese (Mandarin)

Residential Status: Permanent Resident Canada; U.S. Citizen