

John Guo

Data Scientist

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Portfolio: jguo052.github.io/Portfolio

Data scientist with four years of experience teaching community college mathematics. Comfortable tackling challenging problems, learning technical topics, and communicating deep ideas in a digestible way. Interested in applying these skills to provide value to companies through data-driven modeling.

Skills:

Python (Numpy Pandas Scikit-learn) | Data Visualization | Machine Learning | Unsupervised Learning
Regularization | Neural Networks | Tensorflow | Keras | NLP | Web Scraping | Regex | A/B Testing
Docker | SQL | Spark | Databricks | AWS | Git | Github | LaTeX | Mathematics | Teaching

Experience

Data Scientist in Training

Aug 2022 - Nov 2022

General Assembly

Remote

Completed a 480+ hour project-based data science program that focused on solving business challenges using data analysis and predictive modeling. Some completed projects include:

- Created a convolutional neural network to classify audio data as one of six non-speech human sounds. The model correctly classified unseen data with 87% accuracy.
- Used Pushshift's API to collect Reddit posts from r/Seattle and r/SeattleWA. Cleaned text data and built a stacking classifier that predicted which of the two subreddits a post was made in.
- Developed regression models to predict housing prices in Ames, Iowa and infer which home qualities have the strongest influence on the sale price.

Community College Mathematics Professor

June 2018 - Aug 2022

Seattle Central College, Shoreline Community College

Seattle, WA

- Taught over 30 math courses ranging from pre-algebra to calculus II
- Recorded ~200 online math videos to supplement teaching remotely over Zoom.
- Collaborated with faculty to create free Mathematica resources for students to replace a mandatory 1-credit class, reducing the costs for all STEM students by up to \$306.92.

Education

General Assembly

Nov 2022

Data Science Immersive

San Francisco State University

M.A. in Mathematics

Aug 2017

B.S. in Applied Mathematics

May 2015

Publication *The Configuration Space of a Robotic Arm in a Tunnel*, with F. Ardila, H. Bastidas, and C. Ceballos. SIAM Journal of Discrete and Applied Mathematics. **31** (2017) 2675-2702.

Favorite Hobby Rock climbing. I have been an avid boulderer for over 10 years.