

# Sergio Robledo

## Data Scientist

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### Experience

#### Github Portfolio (user:SR14) Data Scientist

Houston, TX  
Aug. 2018 to Current

Completed data science and machine learning projects, three of which can be seen below. Compiled technical reports and presentation slideshows to effectively communicate a project's performance.

#### Barri Financial Group Financial Analyst

Houston, TX  
Aug. 2017 to Aug. 2018

Analyzed historical transaction data and assigned risk to customer accounts. Managed balance sheets for hundreds of stores across 15+ states; implemented automation formulas to speed up the data input process and reduce the number of human data entry errors.

### Sample Data Science Projects

#### Financial Statement Analysis

May 2020 to Current

Collected financial statements from publicly traded companies. After cleaning the data, the data was visualized and a screener was applied. The program's final output was able to recommend the top 10 companies in the stock market from a starting pool of more than 8,000 companies.

#### IMDB Movie Reviews

Mar. 2019 to Sept. 2019

Using Google Cloud Platform's TPU, I was able to train the BERT model to accurately conduct sentiment analysis on the IMDB movie reviews. The model achieved a top 10 state of the art accuracy of 94.93% on the test set.

#### Automated Moon Landing

June 2019 to Aug. 2019

Built and ran reinforcement learning algorithm on OpenAI's "LunarLanderContinuous-v2" environment. The learning algorithm repeatedly landed the lunar lander successfully after only training for 500 episodes which places the model on the leaderboard's second place.

### Education

#### Springboard

Feb. 2023 to Oct. 2023

Software Engineering 2023

#### Springboard

Aug. 2019 to May 2020

Data Science 2020

#### Udacity

Oct. 2018 to July 2019

Machine Learning Engineering 2019

#### University of Texas at Austin

Feb. 2018 to Dec. 2018

Data Analytics 2018

#### University of Houston

Aug. 2014 to May 2018

Bachelor's of Science Petroleum Engineering 2018

### Relevant Coursework

Computer Organization and ArchitectureedX, MIT

Feb. 2021

Algorithms and Complexity · Coursera, Stanford University

Jan. 2021

Data Structures · Coursera, UC San Diego

Dec. 2020

Machine Learning · Coursera, Stanford

Dec. 2020

Data Analysis · Codecademy

Mar. 2018

### Skills

#### Tools

JavaScript

Python

HTML

CSS

SQL, NoSQL

Amazon Web Services

Google Cloud Platform (GCP)

R

#### Data Science

Data Visualization

Data Sampling

Inferential Statistics

Data Preprocessing

Data Exploration

#### Machine Learning

Supervised Learning

Unsupervised Learning

Neural Networks

Deep Learning

Reinforcement Learning

Natural Language Processing

Transfer Learning

Image Recognition

Recommender Systems

Performance Metrics

#### Mathematics

Calculus 1, 2 & 3

Partial Differential Equations

Engineering Mathematics

Discrete Math

#### Computer Science

Asymptotic Notation

Divide and Conquer Algorithms

Randomized Algorithms

Data Structures

Graph Primitives

Greedy Algorithms

Dynamic Programming

Shortest Paths Algorithms

NP-Completeness

Local Search

Heuristic Analysis

Gate Logic

Arithmetic Logic Units

Instruction Set Architecture

Compilers

Procedures & Stacks

RAM, ROM, Caches