

# Jacob Der



📍 jacobder.com    🌐 github.com/JacobDer

✉ derjacob9@gmail.com

📞 9515533643

## Profile

I am a budding data scientist with experience using popular data science toolkits like Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, and PyTorch.

## Work Experience

### Data Analyst/Engineer

*Verified Nutrition*

07/2020 – 01/2021 | Los Angeles

- Designed, implemented, and maintained data pipelines with Python, Snowflake
  - Tested REST API requests with Postman
  - ETL with Python
  - Warehousing with Snowflake
- Performed exploratory analysis and regression on business data
- Did customer segmentation and reported on various groups

### Teaching Assistant

*University of Southern California*

08/2018 – 05/2020 | Los Angeles

## Certificates

### Python for Data Science and Machine Learning Bootcamp

*Instructor - Jose Portilla*

## Skills

### Programming and Software

- Python (Pandas, NumPy), Jupyter notebook, R, SQL
- Versioning with Git and Github
- Visualization with Tableau, Matplotlib, Seaborn

### Machine Learning

- Regression, classification, clustering with Scikit-learn
- Deep learning with PyTorch and Keras/Tensorflow

### Mathematics

*Linear algebra, probability and statistics, calculus*

## Projects

### Full Portfolio on my Website [🔗](#)

### City Employee Salaries Dashboard [🔗](#)

Deployed R Shiny dashboard detailing compensation of city employees

- Queried larger dataset with SQL, prior to use with R
- Crafted visualizations
  - Bar chart for top earning job families
  - Time series for each job family

### Student Performance Prediction [🔗](#)

Used Scikit-learn to predict student performances on exams

- Used chi-squared testing for feature selection
- Created visualizations with Seaborn
- Trained random forest model for final predictions

### Image Classifier [🔗](#)

Used PyTorch to construct a convolutional neural network for image classification

## Education

### MA in Mathematics

*University of Southern California*

08/2018 – 05/2020 | Los Angeles

### BA in Mathematics

*San Francisco State University*

08/2014 – 05/2018 | San Francisco

## Interests

Rock climbing | Philosophy | Cooking | Jazz

Fiction | Old School Runescape