

# Jacob Der



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## Profile

I like to think of myself as a budding data scientist with the ability to ask the right questions and pick correct solutions due to my robust background in mathematics.

## Work Experience

### Verified Nutrition

*Data Analyst/Engineer*

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

## Certificates

### Python for Data Science and Machine Learning Bootcamp

*Instructor – Jose Portilla*

## Skills

### Programming

- Python, Jupyter notebook, SQL
- Versioning with Git and Github

### Machine Learning

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

### Mathematics

Linear algebra, probability and statistics, calculus, graph theory

## Projects

### Heart Failure Model

Used sklearn to classify patients at risk for deadly heart failure

- Used logistic regression for feature selection
- Trained gradient boosting model for final predictions

### Bag-of-words Implementer

- Developed a Python library for preprocessing text data—cleaning and bag-of-words transform
- Published the library to PyPi

### Image Classifier

- Used PyTorch to create convolutional neural network for image classification
- Curated a balanced dataset for testing

## 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 | Reading  
Old School Runescape