







LinkedIn.com/in/theNathanielWatkins   
GitHub.com/theNathanielWatkins   
theNathanielWatkins@gmail.com   
206.294.2249 

## Data Scientist, Machine Learning

Seattle, WA

I'm a reliable manager turned Machine Learning Engineer, enthusiastic about the innovative ways technology can impact people. I developed excellent communication, leadership and reporting skills on my previous path, but yearned for a fulfilling challenge better aligned with my technical/engineering background. Now I've seized the moment and transitioned into an exciting career in Big Data/Artificial Intelligence/Data Science, building expertise in Mathematics, Analysis & ML!

### Skills

Python | Data Analytics

Machine Learning | TensorFlow | Keras  
Research | Scikit-learn | Statistics | SQL | SciPy  
Google Cloud Platform (GCP) | Report Writing  
Data Visualization | Collaboration | Neural Networks

### Projects

#### NYC Taxi Fare Prediction Capstone

Udacity & Kaggle Competition 09/2018

- Successfully deployed a state-of-the-art Wide and Deep TensorFlow regressor framework
- Production-ready and scalable in Cloud ML Engine
- EDA and trained with 55 million row dataset
- Placed within top third on the leaderboard with 3.26 RMSE (within 2 points of the top score)

#### Reinforcement Learning Quadcopter

Udacity 07/2018

- Trained a drone simulation to maintain stable flight within 300 episodes
- Implemented a cutting-edge Deep Deterministic Policy Gradients (DDPG) Actor/Critic model

#### Recycle Bits

Hackathon 02/2018

- Earned 2nd place using Computer Vision and Microsoft Azure APIs to classify trash into distinct categories of Recyclable, Compostable or Refuse
- First implemented as a responsive web app for consumers, with a leaderboard system
- Also envisioned a business plan to create smart trash cans and automated industrial trash sorting

### Education

#### Machine Learning Engineer Nanodegree

Udacity 01/2018 — 09/2018

- Mastered Model Training/Testing/Evaluation, Supervised Learning, Classification, Prediction, Deep Learning, Unsupervised Learning, Clustering & Reinforcement Learning via exceptional projects

#### Machine Learning with TensorFlow on GCP

Coursera 07/2018 — 08/2018

- 5-course specialization on how Google creates deployable ML models for large-scale needs

#### Introduction to Programming Nanodegree

Udacity 09/2016 — 01/2017

- Learned HTML, CSS, Software Design, Debugging, Python, Pandas, NumPy, Matplotlib & Data Analysis

### Experience

#### Student Mentor, Programming Remote/Gig

Udacity 11/2017 — Present

- Perform code reviews with constructive feedback
- Advise & teach students
- Receive consistent 5-Star ratings
- Troubleshoot & motivate through challenges

#### Software Development Student Seattle

Self 07/2016 — Present

- Computer Science | Statistics | Linear Algebra  
Calculus | Algorithms | Machine Learning

#### Property Management Seattle & CA

Essex & W.N.G. 05/2009 — 07/2016

- Managed 7 people | Grew business 7% | Awarded for customer service | Reduced turnover 42%