Nathaniel Watkins

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

Software Engineer, Machine Learning

I'm a dedicated manager turned Machine Learning Engineer, enthusiastic for the wonderful ways technology can impact people. After excelling in a Property Management career, where I learned skills and developed habits that would prove useful in any career trajectory, I yearned for a more fulfilling challenge better aligned with my technical/engineering background. Now I've seized the moment to execute a transition into an exciting career in Artificial Intelligence/Data Science.

Skills

Python | Data Analysis

Machine Learning | TensorFlow

Keras | scikit-learn | Statistics | SQL
Git | Google Cloud Platform (GCP) | JSON

Projects

NYC Taxi Fare Prediction Capstone

Udacity & Kaggle Competition — 09/2018

- Successfully deployed a state-of-the-art Wide and Deep TensorFlow regressor
- 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 quadcopter 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 Evaluation/Validation, Supervised Learning, Deep Learning, Unsupervised Learning & Reinforcement Learning via exceptional projects

Machine Learning with TensorFlow on GCP

Coursera — 07/2018 – 08/2018

- 5-course specialization by Google Cloud on how Google creates scalable and deployable Machine Learning models at large-scale

Introduction to Programming Nanodegree

Udacity — 09/2016 – 01/2017

- Started with web technologies then built a strong foundation for serious programming in Python and specialized in Data Analysis

Experience

Student Mentor — Udacity

Remote/Gig — 11/2017- Present

- Perform code reviews with constructive feedback
- Motivate & Advise students
- Consistent 5-Star ratings

Software Development Student — Self

Seattle — 07/2016 - Present

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

Property Management — Essex | W.N.G.

Seattle | Orange County, CA — 05/2009 – 07/2016

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