

```
In [1]: import Nathaniel_Watkins as the_right_choice
theNW = the_right_choice
```

```
## 206.294.2249
## theNathanielWatkins@gmail.com
```

I'm a dedicated manager turned Machine Learning Engineer with an enthusiasm for the wonderful ways technology can help 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 engineering background. Now I've seized the moment to execute a transition into an exciting career in Artificial Intelligence/Data Science, building expertise in Data Analysis, Python, TensorFlow, Keras and Scikit-Learn.

```
In [2]: theNW.display('Experience')
```

```
## Prints my Work Experience below
```

## Student Mentor | Udacity

Nov 17 - Present

Remote/Gig | Mentoring Students through the Introduction to Programming Nanodegree by:

- Perform code reviews of student projects with constructive feedback
- Send regular encouragement and check-ins to help students stay motivated
- Advise when students are feeling lost or don't know where to begin, and help students troubleshoot and/or debug any issues they're facing

## Software Development Student & Home Renovations Project Manager | Self

July 16 - Present

Seattle, WA | Took a career break to:

- Study Software Development fundamentals, then Statistics, Linear Algebra, Calculus; finally specializing in Machine Learning
- Perform major renovations on my home including restoring wood, removing walls, adding closets, and more
- Also, occasionally volunteer (e.g. Seattle Startup Week) or complete some contract IT work

## Assistant Property Manager (Office Manager/Bookkeeper) | Essex Property Trust

Mar 14 - July 16

Seattle, WA | Top West Coast Focused Real Estate Investment Trust:

- Managed up to 7 people, onsite and semi-remote
- Drove rent growth while maintaining minimal resident turnover and increasing customer satisfaction
- Fostered trust between disparate departments and improved many processes/procedures
- Consistently turned negative customer experiences into a net positive by listening, applying creative solutions, and ensuring that they felt served

## Property Manager (Business Manager) | Western National Group

May 09 - Feb 14

Orange County, CA | Premier property management company setting high standards to be a cut above:

- Developed a strong reputation for customer service and mentoring new hires
- Redirected the NOI trends from -5% to +2% budget variance, reduced annual turnover from 71% to 29%, receiving industry awards

```
In [3]: theNW.display('Education')
```

```
## Prints my Education below
```

## Machine Learning Engineer Nanodegree | Udacity

Jan 18 - Sept 18

Mastered Model Evaluation/Validation, Supervised Learning, Deep Learning, Unsupervised Learning, and Reinforcement Learning through hands-on projects

## Machine Learning with Tensorflow on Google Cloud Platform | Coursera

July 18 - Aug 18

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

## Introduction to Programming Nanodegree | Udacity

Sept 16 - Jan 17

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

```
In [4]: skill_list = theNW.skills() ## Prints my programming Language and toolkit Skills below based on level
print("Comfortable with: {}".format(skill_list.comfortable()))
print("Familiar with: {}".format(skill_list.familiar()))
```

```
Comfortable with: ['Python', 'Jupyter Notebooks', 'TensorFlow', 'Keras', 'scikit-learn', 'Anaconda', 'HTML & CSS', 'Google Cloud (GCP)']
Familiar with: ['Git', 'JSON', 'SQL', 'C#', 'Javascript']
```

```
In [5]: theNW.display('Projects')
```

```
## Prints some of my Projects below
```

## NYC Taxi Fare Prediction - Capstone Project and Kaggle Competition | Udacity

Sept 18

- Created a production-ready Wide and Deep TensorFlow regressor deployed in Google Cloud ML Engine and trained on a massive dataset
- Placed within top third on the leaderboard with 3.26 RMSE (less than 2 points away from the top score)

## Reinforcement Learning Quadcopter | Udacity

July 18

- Trained a quadcopter simulation to fly using a Deep Deterministic Policy Gradients (DDPG) Actor/Critic model

## Dog Breed Classifier | Udacity

Apr 18

- Given an image of a dog, my CNN identifies an estimate of the breed, but if provided a non-dog image, the code identifies a resembling dog breed

## Recycle Bits | Hackathon

Feb 18

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