

# Tyler Robertson

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**Personal Website:**  
<https://tylerrobertson.me>



## \$ overview

A creative and hardworking computer science nerd with a talent for efficient coding. Areas of strength include:

- Full Stack Web Design/Development
- Working with groups
- Artificial Intelligence
- Computer literacy (Microsoft Office, etc)
- Natural Language Processing
- Technical communication

## \$ skills

- Proficient in Python, Java, HTML5/CSS3, Javascript, PHP, C(C derivatives), Ruby
- Working knowledge of AWS, Django, TensorFlow, Tesseract, PIL, scikit-learn, NLTK, Vagrant, PostgreSQL
- Modern web design and full-stack development
- 6 years of experience in Linux-based operating systems
- 10 years of experience in image processing (Photoshop/GIMP)

## \$ education

### **Bachelor of Science, Computer Science & Neuroscience**

*Oberlin College, Oberlin, OH*

2016

## \$ projects

### **Natural Language Processing/Machine Learning:**

- Language identification of tweets (Twitter) for 9 natural languages
- Text generation using Hidden Markov Model
- Program that identifies missing vowels in words with vowels removed (ex: "hll wrld" => "hello world")

### **Artificial Intelligence/Search:**

- AI players for traditional games Mancala, Boggle, & Blackjack
- Computer vision shape classification task using artificial neural network
- Flock simulation based on BOIDS (Craig Reynolds, 1986) modeling the emergent behavior of fish in a predator/prey relationship

### **Other:**

- Encryption plugin for Gmail using PGP
- Scheme interpreter built on top of Scheme
- Web application to create and test neural networks in the browser
- Live webcam video feed simulating deuteranomaly (red-green colorblindness)
- Various image processing scripts for digital artwork

## \$ professional\_experience

### **Machine Learning Engineer**

*NextLaw, Seattle, WA (remote)*

2018-2019

Sole developer for Seattle based startup in legal field. Created web application and Microsoft Office plugin from ground up. Utilized machine learning techniques including Neural Network classification, Hidden Markov Models, and computer vision for Natural Language Processing tasks.

### **Web Developer**

*Oberlin College Student Union, Oberlin, OH*

2015-2016

Created and maintained online content for various student organizations.

### **Web Design/Marketing Intern**

*Caribe Resort, Orange Beach, AL*

2015

Developed responsive, mobile-optimized sites for companies in Orange Beach and Gulf Shores, Alabama.

## \$ personal\_interests

Computational/Behavioral Neuroscience, Geology, Philosophy, Video Games, Bowling, Pizza