**Patrick Kelley**

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Address: 11338 Cornerbrook Ct. Reno, Nevada 89511

**Education**

**University of Nevada, Reno**

Bachelor of Science in Computer Science and Engineering

Minor: Electrical Engineering and Mathematics

Expected Graduation: Spring 2017

**Notable Coursework**

* Pattern Recognition
* Deep Learning
* Computer Vision
* Advanced Computer Vision
* Introduction to Aerial Robotics
* Image Analysis
* Digital Signal Processing
* Parallel Computing
* Numerical Methods I & II
* Computer Graphics
* Networks
* Data Structures
* Analysis of Algorithms
* Control Systems

**Experience**

**Web Developer: Easykeeper Herd Manager**

July 2016 – Present

* Full-stack Ruby on Rails development

**Application Developer: Behavior Analysis Department at UNR**

January 2016 – Present

* Developed various applications to record user behavior for future analysis

**Instructor: Computer Vision Lab at UNR**

January 2016 – July 2016

* Created and presented coursework for a course on Biometrics for K-12 teachers

**Application Developer: High Sierra Industries**

May 2013 – May 2016

* Assisted people with developmental disabilities
* Implemented many data collection/visualization systems used in therapy for people with disabilities

**Backend Developer: Olea Sensor Networks**

October 2015 – January 2016

* Developed an application in C++ to interface with MySQL

**Projects:**

* First Place at Startup Weekend for an autonomous greenhouse
* Application of a convolutional neural network to classification of medical images
* Lambda Calculus Interpreter implemented in Haskell
* Application of a Generative Adversarial Network(GAN) to convert a RGB video stream to a depth-map stream
* Detection/Tracking using optical flow feature points and a particle filter
* Raspberry Pi mesh network using OLSR

**Programming Languages and Softwares/Libraries**

**Programing Languages:** C/C++, Python, Ruby, Haskell, JavaScript, HTML/CSS

**Libraries:** Tensorflow, Scikit Learn, OpenCV, Keras, Caffe, LibSVM, OpenGL

**Software:** Git, Maple, Matlab, Multisim