ETHAN NELSON

(770) 689-7042 | einelson8i@gmail.com | linkedin.com/in/ethan-nelson/ | einelson.github.io
Pending security clearance

C++ / OOP	Python	Data visualization	TensorFlow / Keras
Machine learning/ Clustering, Neural Nets	Networking	Algorithms	Engineering design process

Work Experience

Software Engineer   May 2021-Present
ARCTEC Solutions   *Middleburg, Va*
- Engineering automation of software installation tasks
- Designing and integrating interactive GUI/ UIX to control automated build process
- Modification of existing code to stream data more effectively than natively designed

Data Science Intern   Jan 2021-April 2021
Snow Data Science   *Houston TX, Rexburg, ID*
- Used data visualization to create results that are easily understandable
- Researched unsupervised machine learning algorithms pertaining to clustering and use of PCA
- Program worked with large systems to detect and pinpoint where faults were occurring

Data Reviewer, Annotator   Feb 2020-Jan 2021
Research & Business Development Center   *Rexburg, ID*
- Conducted research under a Machine Learning Engineer in order to increase working knowledge on machine learning algorithms specifically dealing with neural networks, semantic segmentation and point cloud classification.
- Built neural network with Point Net and TensorFlow to classify point cloud data to help achieve a fully automated warehouse.
- Correctly applied algorithms to classify point cloud data.
- Contributed to 80,000+ image data set to train machine learning algorithm in recognizing product details

Project Experience

Image Colorization   Nov 2019-Dec 2019
Student Project   *Rexburg, ID*
- Trained a machine learning algorithm using an 800+ image database.
- Deepened knowledge on Convolutional Neural Networks and image pre-processing by experimenting and researching relevant data.
- Collaborated with team to maximize efficiency in preparing training and modeling training data to speed up result time.

Education

Brigham Young University-Idaho   Sep 2021
BS. Science in Computer Science   *Rexburg, ID*

Other Relevant

Won nation-wide youth competition | enelson8   nSep 2013
- Used multiple technologies to create a creative home improvement project.
- Innovated, designed and built a system to toggle lights from bed.

- Use of 3-D printing, microcontrollers, soldering, plexiglass.

Amateur radio operator- K7INE