

ETHAN NELSON

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

Work Experience

Data Science Intern

Jan 2021-Present

Snow Data Science

Houston TX, Rexburg, ID

- Using data visualization to create results that are easily understandable
- Researching unsupervised machine learning algorithms pertaining to clustering and use of PCA
- Program will work with large systems to detect and pinpoint where/when faults are occurring
- Creating interactive web view of fault detection project that will display results

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 correctly classify point cloud data to help achieve a fully automated warehouse.
- Contributed to 80,000+ image data set to train machine learning algorithm in recognizing product details
- Co-lead a team of 8+ by presenting training material and

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.

Other Relevant

- Amateur radio user in emergency radio communication network- Technician class K7INE
- Won nation-wide youth competition. [Instructables.com | enelson8](https://www.instructables.com/enelson8)
 - Innovated, designed and built a system to toggle lights from bed
- Use of 3-D printing, CAD, microcontrollers, soldering, plexiglass
- Welding and automotive mechanics

Education

Brigham Young University-Idaho

Apr 2021

BS. Science in Computer Science

Rexburg, ID