

ETHAN NELSON

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Education

Brigham Young University-Idaho

BS. Science in Computer Science

Apr 2021

Rexburg, ID

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

Work Experience

Data Science Intern

Snow Data Science

Jan 2021-Present

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 faults are occurring

Data Reviewer, Annotator

Research & Business Development Center

Feb 2020-Jan 2021

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

Student Project

Nov 2019-Dec 2019

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.

EEG Eye-State Data Research

Personal Project

Jan 2020-Feb 2020

Rexburg, ID

- Conducted and applied research in order to understand EEG data and how it works with machine learning.
- Built and trained a network that could classify eye state data with a 94.53% accuracy.

Other Relevant

Won nation-wide youth competition | [enelson8](#)

Sept 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.