ETHAN NELSON

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Professional Experience

Senior Associate, Analytics

May 2022-Present

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Remote

- Use of data visualization tools to bring insight to clients.
- Aided in the setup of automated data pipelines.

Software Engineer

May 2021-Dec 2021

Middleburg, VA

ARCTEC Solutions

Automation of software installation tasks.

- Modification of existing code to stream data more effectively than natively designed.
- Present research findings to a team of engineers.
- Creating a data dissemination tool to pull data from APIs and remote databases to store into a local database.

Data Science Intern

Jan 2021-April 2021 Houston TX, Rexburg, ID

Snow Data Science

Used data visualization to create results that were easily interpreted by humans.
 Researched unsupervised machine learning algorithms pertaining to clustering and use of dimensionality

Data Reviewer, Annotator

reduction (PCA).

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 <u>neural network</u> 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.

Research Projects

Fault Detection- Research on predicting faults in oil pipelines. Use of unsupervised machine learning and dimension reduction to predict and then visualize groupings. Sponsored by Snow Data Science.

Image Colorization- Predicted the colored counterpart of grayscale images. Research into different color spaces such as LAB. Applied findings to different use cases such as image compression.

Point Cloud Classification- Use of neural networks to predict classification of point cloud images for use in robotic warehouses. Dealt with lidar imagery.

<u>Technical Experience</u>

- Python 2.7, 3
- Machine Learning
- Data Visualization
- Tensorflow/ Keras

- SQL/ NoSQL
- Computer vision
- Object oriented (OOP)
- Linux (Ubuntu, RedHat)
- 3D modeling (Autodesk Inventor)
- Agile/ Scrum
- Debugging
- Networking

<u>Education</u>

Brigham Young University-Idaho
BS. Science in Computer Science
Data Career Jumpstart
Data science project experience

Sep 2021 Rexburg, ID Present Remote