ETHAN NELSON

(770) 689-7042 | ethanisaacnelson@gmail.com | linkedin.com/in/ethan-nelson/ | https://einelson.github.io/ | Secret Clearance

Professional Experience

Senior Associate, Analytics   Jan 2022-Present
dentsu   *Remote*
- Leading efforts in automation of reports and insight generation.
- Facilitate setup of automated data pipelines.

Software Engineer   May 2021-Dec 2021
ARCTEC Solutions   *Middleburg, VA*
- Automated software installation tasks.
- Presented research findings to a team of engineers.
- Created data dissemination tool to pull data from APIs and remote databases to store into a local database.

Data Science Intern   Jan 2021-April 2021
Snow Data Science   *Remote*
- Used data visualization to create results that were easily interpreted by humans.
- Researched unsupervised machine learning algorithms pertaining to clustering and use of dimensionality reduction (PCA).

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.

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.

Technical Experience

● Python 2.7, 3	● SQL/ NoSQL	● 3D modeling (Autodesk Inventor)
● Machine Learning	● Computer vision	● Agile/ Scrum
● Data Visualization	● Object oriented (OOP)	● Debugging
● Tensorflow/ Keras	● Linux (Ubuntu, RedHat)	● Networking

Education

Georgia Institute of Technology   **2022-Present**
MS. Science in Computer Science | Specialization in Interactive Intelligence   *Remote*

Brigham Young University-Idaho   **2018-2021**
BS. Science in Computer Science   *Rexburg, ID*

Data Career Jumpstart   **2021**
Data science project experience   *Remote*