Ethan Nelson

ethanisaacnelson@gmail.com ▪ (770) 689-7042 ▪ linkedin.com/in/ethan-nelson/

# Profile

Dynamic and versatile machine learning engineer with a background in designing, implementing, and deploying AI solutions. Leadership experience in leading machine learning and data operations initiatives, with technical experience in natural language processing/deep learning, model deployment, and all aspects of the AI lifecycle.

# Work Experience

## Stukent ▪ Remote ▪ United States

### Machine Learning Engineer | Data Ops

08/2023 – present

* Spearhead the design and implementation of end-to-end machine learning and data operations pipelines, resulting in 5 model endpoints served to over 40,000 users.
* Increasing data ingestion by 500% by designing and implementing SQL data warehouses, and efficient data pipelines
* Architect automated workflows for the training, evaluation and deployment of machine learning models in production environments.
* Develop and fine-tune NLP algorithms, including LSTMs and transformers, implementing a real-time alert system for engineering teams on bug-related issues within the platform.
* Integrate large language models to interpret student performance data dynamically, enhancing learning outcomes through adaptive model responses.
* Leading company research initiative. Originally conducted research and proposed ten AI methodologies to enhance platform functionality, culminating in the acceptance of two projects.

## iProspect ▪ Remote ▪ United States

### Senior Data Analyst

01/2022 – 08/2023

* Lead efforts in automation of data delivery by architecting new ETL pipeline logic and managing team of data engineers. New pipeline increased efficiency in runtime over legacy pipeline by 250%.
* Leveraged strong communication skills to address ad-hoc client requests, utilizing Python, SQL, and data transformations to revamp dashboards. Enhanced visibility of key performance indicators (KPIs) and streamlined reporting processes.
* Built scripts to transform and join data to help case study dealing with 50% unattributed data points.

## ARCTEC Solutions ▪ Middleburg ▪ United States

### Software Engineer

05/2021 – 12/2021

* Developed automation scripts for remote software installation, reducing manual setup time by 50% and enhancing operational efficiency.
* Designed a data dissemination tool that aggregates data from APIs and remote databases, facilitating seamless integration into a local database for analysis.
* Enhanced a signal intelligence device to optimize packet transmission to external applications, improving data communication and processing capabilities.

# Education

## Georgia Institute of Technology ▪ Atlanta ▪ United States

### Interactive Intelligence

09/2022 – present

Natural Language Processing, Knowledge based Artificial Intelligence, Machine Learning, Quantum Computing, Human Computer Interaction, Machine Learning for Trading.

## Brigham Young University ▪ Rexburg ▪ United States

### Computer Science

04/2018 – 08/2021

# Ventures

* Developed platform which leveraged LLMs and RAG architecture to optimize communication efficiency in B2C applications.

# Skills

Python 3 ▪ Torch ▪ NLP ▪ Transformers ▪ Spark/Pyspark ▪ Machine Learning/AI ▪ Databricks ▪ mlflow ▪ Problem Solving ▪ Communication ▪ Leadership