ETHAN NELSON

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**Professional Experience**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Machine Learning Engineer | Data Ops**  Aug 2023-Present

*Stukent*  *Remote*

* Spearheading 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.
* Architect automated workflows for the training, evaluation and deployment of machine learning models in production databricks environments through use of MLflow and pyspark.
* Develop and fine-tune NLP algorithms in PyTorch, 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 team for company research initiative. Originally conducted research and proposed ten AI methodologies to enhance platform functionality, culminating in the acceptance of two projects.

**Co-Founder** 2023-2024

*AmyAI Remote*

* Used LLMs and ChatGPT to improve communication between companies and customers by creating and deploying custom RAG pipelines based on web scraped customer data.
* Deployed APIs in Microsoft Azure via docker + Kubernetes.

**Senior Data Analyst**  Jan 2022-Aug 2023

*iProspect*  *Remote*

* 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 application by ~250%.
* Addressed ad-hoc requests with a strong command of Python, SQL, and data transformations, revamping dashboards to enhance visibility of key performance indicators (KPIs) and streamline reporting processes.
* Built scripts to transform and join data to help case study dealing with 50% unattributed data points.

**Software Engineer Internship** May 2021-Dec 2021

*ARCTEC Solutions Middleburg, VA*

* Developed automation scripts for remote software installation, reducing manual setup time by 50% and enhancing operational efficiency for government clients.
* Enhanced a signal intelligence device to optimize packet transmission to external applications, improving data communication and processing capabilities.

**Education**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Georgia Institute of Technology**  **2022-April 2025**

*MS. Science in Computer Science | Specialization in Interactive Intelligence Remote*

* Natural Language Processing, Knowledge based Artificial Intelligence, Machine Learning, Quantum Computing, Human Computer Interaction, Machine Learning for Trading, LLM seminar, Introduction to Research.

**Brigham Young University-Idaho**  **2018-2021**

*BS. Science in Computer Science Rexburg, ID*

* Machine Learning and data Mining, Computer Vision, Databases, Data structures, Discrete Mathematics, Linear Algebra