

Ethan Perry

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Experience

LLM Programming Trainer

April 2024 - Present

Data Annotation

Remote

- Trained **Large Language Models** (LLMs) on **C++** and **Python** concepts
- Created **enterprise API** tool calls for the models to learn from (**Rapid API**, **Google Cloud**)
- Trained LLMs on the use of **Matplotlib** and **Pandas** for data visualization
- **Evaluated** AI responses across **multiple axes** such as correctness, accuracy, safety, etc.

IT Specialist

Aug 2023 - April 2024

LDS Church Office Building

Salt Lake City, UT / Remote

- Collaborated with employees to **format** company computers, update **drivers**, conduct **hardware upgrades**, and maintain **software updates**
- Managed and resolved ticket requests **promptly** via **ServiceNow** platform, maintaining **thorough documentation** for all interactions

Education

B.S. Computer Science - Brigham Young University

Aug. 2021 - Present

Software Engineering emphasis

Provo, UT

Projects

Token Reduction LLM | *Python, Google Colab, Huggingface Transformers*

Oct 2024

- Created a **hybrid NLP pipeline**, combining capabilities of **SciBERT** and **Llama 3.2 3B**
- Reduces token costs of the latest LLM APIs using summarization
- Models were **finetuned** with quality human data and manipulated by **prompt engineering**

Image Mosaic Generator | *Flask, Docker, Flutter*

July 2024

- Developed a **cross-platform application** using **Flutter** to transform user images into *Minecraft* mosaics
- Engineered a **Flask** backend integrated with a **RESTful API** deployed to a **Docker container**
- Upgraded application backend with **C++** subprocesses **resulting in a 96x performance increase**

Other projects | *Various tools*

- **Qt 6/C++** data visualization tool for Spotify user data
- GUI Automation powered by **OpenCV** using the SikuliX framework in **Python**
- Wrote custom keyboard **firmware** profile for a **RP2040 MCU** powered split keyboard, using QMK

Skills

- **Programming Languages:** Python, C++, Dart
- **Frameworks/Libraries:** Docker, Flask, Pandas, Numpy, Qt 6, Matplotlib/Seaborn, Flutter, Tableau
- **Tools:** Git, Linux, Bash, CMake, GDB, Google Colab, ProtoBuf, ServiceNow