Rowan Torbitzky-Lane

rowan.a.tl@protonmail.com • www.brokenglass.dev • github.com/RowanTL • linkedin.com/RowanTL

Skills

- PyTorch
- YOLO
- C++
- Rust
- Docker
- HuggingFace
- OpenCV
- Godot
- Evolutionary Computing
- SQL
- MATLAB
- Linux
- CUDA
- Anaconda
- Haskell

Experience

NSF REU Program May 2024 - October 2024
Missouri University of Science and Technology Rolla, MO

- Research Bi-Directional LLMs to Correct Errors in Genome Reads
  - Analyze Genome Sequences left→right and right→left together
- Developed with HuggingFace library to interact with Models
- Interact with Campus HPC and CUDA for Training
  - Execute Slurm Scripts on said HPC
- Clean text data with Scikit-learn and Scikit-bio

Undergraduate Research Assistant May 2023 - October 2023
Center for Intelligent Infrastructure Rolla, MO

- Perform Annotations for Image Segmentation Convolutional Neural Networks
- Calculate Optical Flow with MATLAB and C++
- Applied OpenCV Optical Flow Capabilities to Videos

Data Science Co-Op January 2022 - August 2022
Hunter Engineering Company Bridgeton, MO

- Train Convolutional Neural Networks with YOLO and PyTorch
  - Train Classification Models to detect if a car is too close to cameras and remove from training data
    - Achieved mAP of 96%
    - Resulted in a 10% increase of annotation efficiency
  - Train Segmentation Models to distinguish between NA and European license plates
    - Achieved mAP of 97%
- Containerize Models inside Docker

Personal Projects

Self-Hosted Linux Server January 2023 - Present

- Utilize CUDA for Accelerated Model Training
- Construct a bird detection AI
  - Achieved mAP of 94%
- Annotate Images via Label Studio
- Fine-Tune Local LLMs
- Assemble Anaconda Training Environments

Education

Missouri University of Science and Technology Rolla, MO
B.S. Computer Science, with a Minor in Mathematics December 2024
Summa Cum Laude GPA: 3.80

Invited Talks

Genetic Programming in Python @ PySTL https://www.youtube.com/watch?v=ZzYi_j2IYuY September 18th, 2025

Link to this LaTeX resume: https://github.com/RowanTL/resume/blob/main/nvidia-resume/resume.pdf