

# Rowan Torbitzky-Lane

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## Skills

- PyTorch
- YOLO
- C++
- Rust
- Docker
- HuggingFace
- Django
- 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++

### 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

### Rust Evolutionary Computing Framework

March 2025 - Present

- Coded A PushGP implementation in Pure Rust

## 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](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>