

# Rowan Torbitzky-Lane

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## Education

**Missouri University of Science and Technology**

Rolla, MO

B.S. Computer Science, with a Minor in Mathematics. GPA 3.80

December 2024

## Experience

### NSF REU Program

May 2024 - October 2024

*Missouri University of Science and Technology*

Rolla, MO

- Present Research Findings Weekly at Meetings
- Experiment with LLMs and Next-Token Prediction on Genome Sequences
- Clean data with Scikit-learn and Scikit-bio

### Undergraduate Research Assistant

May 2023 - October 2023

*Center for Intelligent Infrastructure*

Rolla, MO

- Calculate Optical Flow with MATLAB and C++ utilizing Slurm
- Use Django to manage Web Requests
- Program Web Applications with Typescript
- Manipulate videos using OpenCV
- Perform Annotations for Image Segmentation Neural Networks
- Participated in Weekly Meetings discussing State of Project

### Data Science Co-Op

January 2022 - August 2022

*Hunter Engineering Company*

Bridgeton, MO

- Train Convolutional Neural Networks with YOLO and PyTorch
- Design and write APIs with FastAPI and Flask
- Containerize programs with Docker
- Program internal tooling with Pandas and Microsoft SQL
- Implement pipelines into internal Git repository
- Construct graphical interfaces using the Qt framework
- Interact with Internal Websites Automatically via Selenium
- Attend Bi-Weekly Lunch and Learns covering Full-Time Employee Responsibility

## Personal Projects

### Self-Hosted NixOS Server

January 2023 - Present

- Train Neural Networks
- Host Personal Servers in Containerized Environments
- Manage Reverse Proxy connections with Nginx
- Host PostgreSQL Database for Class Assignments

### Rust Genetic Programming Framework

March 2025 - Present

- Utilize Test Driven Development Philosophy
- Perform Pre-Processing on Time Series Data
- Write Macros for Reduced Boilerplate
- Analyze Other Developers' Code for Concept Understanding
- Read the Rust Manual Explaining Common Scenarios
- Utilize Third Party Libraries for Increased Performance