

Rowan Torbitzky-Lane

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

Education

Missouri University of Science and Technology

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

Summa Cum Laude

Rolla, MO

December 2024

Experience

NSF REU Program

Missouri University of Science and Technology

May 2024 - October 2024

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

Center for Intelligent Infrastructure

May 2023 - October 2023

Rolla, MO

- Calculate Optical Flow with MATLAB and C++ utilizing Slurm
- Use Django to manage Web Requests
- Program User Interfaces 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

Hunter Engineering Company

January 2022 - August 2022

Bridgeton, MO

- Utilize Microsoft Excel for Data Annotation
- Train Convolutional Neural Networks with YOLO and PyTorch
- Design and write APIs with FastAPI and Flask
- Containerize said APIs with Docker
- Program internal tooling with Pandas and Microsoft SQL
- Implement workflows into internal Azure DevOps Git repository
- Attend Bi-Weekly Lunch and Learns covering Full-Time Employee Responsibility

Personal Projects

Self-Hosted Linux Server

January 2023 - Present

- Interact with Router Firewall
- Host Wireguard Virtual Private Network
- Manage Reverse Proxy connections with Nginx
- Point Domain Names via A Records
- Built from Components Ordered Online
- Self Host a Git Server

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