

# Rowan Torbitzky-Lane

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## Summary

To work at Burlington Northern and Santa Fe Railway as a AI Engineer (Software Engineer I/II). Logically-driven Computer Scientist with a bachelor's degree and 1+ year(s) of personal and professional AI/ML experience. Dedicated to thoroughly reasoning through a problem.

## 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 text 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 leveraging Pandas and Microsoft SQL
- Implement workflows into internal Azure DevOps Git repository
- Attend Bi-Weekly Lunch and Learns covering Full-Time Employee Responsibility
- Utilize AWS S3 for Image Storage

## 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
- Train Bird Object Detection Model