

# Samuel Kaminski

samkamin@umich.edu • Ada, MI • 49301 • <https://samkaminski.github.io/SamKaminskiPortfolio/>

## EDUCATION

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### University of Michigan

Ann Arbor, MI  
May 2026

College of Literature, Science, and the Arts, Computer Science (Major)

- Relevant Courses: Programming Concepts, Programming and Intro Data Structures, Data Structures and Algorithms, Discrete Mathematics, Introduction to Statistics and Data Analysis

## PROJECTS

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### Autonomous Drone Navigation Software

April 2024

- Developed and implemented C++ algorithms to optimize drone routes, including Minimum Spanning Tree and near-optimal Travelling Salesperson Problem solutions using heuristics.
- Utilized branch and bound techniques to achieve optimal TSP solutions, improving efficiency and ensuring minimal delivery distances.

### Simplified Relational Database Emulator

April 2024

- Developed and implemented a relational database emulator in C++, enabling efficient storage, retrieval, and manipulation of data through SQL-like commands.
- Designed and optimized data structures and algorithms for database operations such as JOIN, PRINT, and DELETE, improving query performance and system efficiency.

## EXPERIENCE

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### Michigan Mountain Bike Alliance

Remote

*Data Analyst Intern*

Sept 2023 - Jan 2024

- Compiled and organized data on 1000+ miles of mountain bike trails from multiple sources into a comprehensive Excel database
- Categorized trails efficiently by location, distance, difficulty, and other key attributes to enhance accessibility and usability
- Analyzed trail data to provide insights and recommendations for trail improvement and maintenance

### Enwork

Grand Rapids, MI

*Logistics Intern*

April 2023 – Aug 2023

- Worked closely with freight companies to acquire shipping estimates for outbound products
- Maintained a 7.3% freight charge, despite Union strikes within freight companies
- Negotiated shipping rates with multiple freight carriers daily, securing the most cost-effective options for shipments across the United States

*Warehouse Intern*

May 2022 - Aug 2022

- Skilled in operating CNC machinery for precision fabrication of tabletops and cabinets, managing order fulfillment from warehouse to ensure timely delivery and customer satisfaction.
- Coordinated production, enhancing efficiency and streamlining operations.

## TECHNICAL SKILLS

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- C++, HTML5, CSS3, Git, R, Microsoft Excel