

Samuel Kaminski

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EDUCATION

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

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

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

- C++, Visual Studio Code, HTML5/CSS, Github, R, Microsoft Excel