Adam Mentzer

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EDUCATION

University of Michigan, *B.S. in Computer Science, May 2023*

Coursework: Data Structures and Algorithms, Programming and Data Structures, Web Design and Accessibility, Discrete Mathematics, Entrepreneurship in the Digital Age, Introduction to Information Studies, Econometrics, Web Systems, Intro to Computer Organization

Skills: C++, Python, HTML, CSS, Javascript, Git, R, Figma, MS Excel (*Pivot Tables, VLookup*), MS Powerpoint, Agile, Scrum, Swift, SwiftUI, A/B Testing, Nintex Robotic Process Automation, Fiserv Business Analytics, STATA, Siemens NX

WORK EXPERIENCE

Level One Bank *May 2021 — August 2021*

Operations and Finance Intern (Automation Specialist) **Farmington, MI**

- Developed an automated tool that yielded a 10x reduction in the amount of time needed to process collateral management reports by automatically retrieving data from the internal database, generating the report, and identifying whether or not the report required further manual review.
- Achieved a 9.1% reduction in the size of the loan account database by consolidating thousands of duplicate addresses (typos, alternate spellings and abbreviations, etc.) by identifying and updating them through Microsoft Excel and automation techniques.
- Introduced a new standardized record-keeping system for categorizing loan notification records after creating a program that sifted through preexisting records to detect naming similarities/differences.
- Worked with multiple different departments to identify day-to-day difficulties/inefficiencies that I could assist in alleviating.

State Representative Darrin Camilleri's Reelection Campaign *June 2018 — August 2018*

Political Intern **Brownstown, MI**

- Traveled door-to-door while canvassing in Michigan's 23rd Congressional District to reach over 120 households.
- Met with district constituents to gauge support for Rep. Camilleri after his first term and for his proposed bills.
- Liaised with other interns and campaign operatives to help craft a campaign message.

Tim Hortons *March 2017 — September 2018*

Team Member **Woodhaven, MI**

- Assisted 20+ customers per hour by making transactions and relaying orders to fellow team members.
- Trained new employees in making sales, operating the cash register, and properly handling sensitive food items.

PROJECTS

This is not an exhaustive list, see adammentzer.github.io/portfolio for more projects

UX Analysis: Slack *(May 2021 — August 2021)*

- Facilitated user interviews, conducted research, and identified user pain points in order to evaluate the user interface of Slack with respect to Jakob Nielsen's 10 Usability Heuristics. The project culminated in a 14-page report containing usability evaluations and design recommendations for future iterations of the product.

Video Game Simulation *(October 2021)*

- Simulated a video game in which the player (the user) is supposed to choose the highest-priority enemy to defeat through the implementation of priority queues using custom comparators.
- Additionally, the player could specify output modes that would detail previous player actions and enemy statistics (median lifespan, longest-living enemies, etc.) by implementing the aforementioned data structures in other ways.
- Implemented a binary heap, unordered priority queue, and a pairing heap without the use of the C++ STL (second half of project).

Efficient Event Seating Helper *(July 2021 — August 2021)*

- Developed a tool in Python for seating guests at events, optimizing for as few open seats as possible. Having the user specify groups and their members, the program included seat optimization for a given number of tables, the number of chairs at each table, seating large groups alone, and letting the program find the most efficient number of chairs/tables.

Content Classifier: Piazza *(April 2021)*

- Built program in C++ that employs natural language processing techniques to predict the topics of online forum posts (Piazza), correctly labeling 87% of 2,988 posts from previous semesters of the class.
- The goal of this project was to learn about various machine learning models via the use of maps and binary search trees.

Zookeeper Pathway Optimization *(November 2021 — December 2021)*

- Designed a program that implemented a modified version of Prim's algorithm to construct a minimum spanning tree while avoiding a predefined "danger zone" that could only be added to the tree if certain constraints were satisfied.
- Other capabilities of program included solving the Traveling Salesperson Problem through a branch-and-bound algorithm where the user could choose between the optimal solution or a more quickly retrieved yet suboptimal solution (nearest arbitrary insertion TSP heuristic).

LEADERSHIP

MProduct *January 2020 — Present*

VP of Operations **Ann Arbor, MI**

- Planned and moderated "MProduct Connect," a conference for students interested in product management featuring companies such as Belvedere and VMWare. This has now turned into an annual event at the University of Michigan.
- Created social events in order to foster meaningful relationships among members.
- Supervised all efforts related to finances, communication, and registration with the University of Michigan's various departments.
- Established consulting infrastructure for MProduct where multifaceted teams of business, engineering, and design students have helped clients to streamline their product development processes, recommended new KPIs/metrics, introduced new features to products, conducted market research, and connected with product managers from early-stage startups.
- Implemented new organizational structure meant to return member engagement to pre-pandemic levels, promote opportunities for professional growth of all members, and to effectively integrate into our community the two most recent new member cohorts (totaling around 120 people).

ADDITIONAL

Extracurriculars: Sigma Eta Pi Entrepreneurship Fraternity, MProduct, Michigan EcoData, Alliance Consulting Group (Marketing Chair), Mary Markley Hall Council

Interests: Formula 1, NFL, Biking, Vinyl Record Collecting, Genealogy, Linguistics, Golf