

Joseph Sun

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Education

University of Michigan

Bachelor of Science

Ann Arbor, Michigan

Expected Graduation: May 2027

- **Majors:** Cognitive Science (Computational Track) | **Minor:** UI/UX design
- **GPA:** 3.79
- **Relevant Coursework:** Data Structures and Algorithms, Discrete Mathematics, Programming and Intro Data Structures

Projects

Save The Date Wedding Website (HTML/ CSS)

July - August 2024

- Created custom data structure to organize reusable JavaScript components within Vue Framework, streamlining the design and layout of icons, text, and images depicting the date and location of the wedding
- Implemented dynamic resizing of images and text based on screen size, ensuring consistent design across different devices
- Utilized Git to maintain version control with two other team members to create branches, review pull requests, and resolve merge conflicts to develop, test, and deploy safe new additions to the code

Among Us Path Optimizer (C++)

June 2024

- Implemented branch and bound algorithm to solve Traveling Salesman Problem in the form of Among Us game maps to determine optimal routes for players to traverse most efficiently complete tasks located on a 2D graph

Graph Search and Route Tracing Game (C++)

May 2024

- Applied depth-first search, breadth-first search, and backtracking algorithms to traverse the 3D map of obstacles to find the destination or determine when no solution was available
- Created test cases that resolved edge-case issues and ensured consistent data structure information across the 3D map, enhancing problem-solving skills and eliminating bugs within the game

Euchre Simulation (C++)

January - February 2024

- Leveraged object-oriented design to create a model of Euchre, a popular card game, effectively simulating game mechanics through a simple and intuitive user interface
- Created a digital opponent that evaluates potential outcomes and selects the optimal action to cultivate a challenging and engaging experience for the user

Experience

180 Degrees Consulting

Analyst

Ann Arbor

February 2024 - Current

- Conducted market research on demographics, competitors, and trends for a climate technology company on a team of five to provide recommendations on consistent advertising and target audience preferences to grow the app's user base
- Researched case studies, market trends, and geographical data to propose diversified educational offerings, website design changes, and outreach program expansion to increase the exposure and efficacy of a non-profit organization

Chipotle

Crew

Rochester Hills

June 2023 - August 2023

- Provided excellent customer service by quickly processing orders, addressing concerns, and maintaining a clean environment, contributing to a positive dining experience and fostering customer loyalty
- Communicated proactively with team members about food levels and task assignments to ensure timely restocking, enhance team productivity, and increase order efficiency

Hopkins Landscaping

Landscaper

Rochester Hills

May 2023 - August 2023

- Collaborated with four team members on landscaping projects, including planting, mulching, and irrigation, to deliver quality service, enhance property aesthetics, and resolve lawn issues promptly
- Utilized environmentally friendly landscaping techniques, such as the integration of native plant species and soil runoff reduction, to ensure the integrity of the landscaping work and to promote sustainable practices

Additional Information

- **Programming Languages:** C++, Java, Python, HTML, CSS, JavaScript
- **Languages:** English, Chinese (bilingual proficiency), German (limited proficiency)
- I am passionate about hiking and camping, fueling my goal to experience as much of the world as possible
- I love being active; I used to swim and now love to watch and play soccer, basketball, and football. Go Lions!
- Cooking has been my way of experiencing other cultures. From Korean to Jamaican cuisine, I have begun to appreciate the diversity of flavors within the world