Nicholas Eaton

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EDUCATION

University of Michigan, Ann Arbor   *Graduation June 2025 (One Year Early)*

Computer Science Engineering Major

GPA: 3.631/4.0 | Dean's List FA 2022, WN 2023, FA 2023| University Honors WN 2023 & FA 2023

Relevant Coursework: Data Structures & Algorithms, Introduction to Computer Architecture, Data Analytics Tools & Techniques, Web Design; Development; and Accessibility, Computer Science Pragmatics

PROJECT EXPERIENCE

3D Maze Solver C++ (Project as part of Data Structures & Algorithms course)
- Developed a 3D maze solver program in C++ from inception to completion, utilizing Breadth-First Search (BFS) and Depth-First Search (DFS) algorithms for optimal pathfinding, with the added implementation of backtraces for enhanced path recovery.
- Conducted comprehensive testing and debugging procedures, checking numinous edge cases, ensuring the program's reliability and accuracy in solving various 3D maze scenarios.
- Implemented robust data structures and algorithms to represent and navigate through complex 3D maze environments, demonstrating a deep understanding of path solving and algorithmic problem-solving.

Loan Approval Analysis SQL, Python (Project as part of Data Analytics Tools & Techniques)
- Leveraged SQL queries proficiently to engineer a new field by synthesizing pertinent data points, facilitating enhanced analysis and insights into loan acceptance likelihood.
- Demonstrated adeptness in Python programming by developing a robust script utilizing the Pandas library, adeptly parsing through cleaned data to uncover correlations between personal attributes and loan approval probabilities.
- Developed and trained a predictive model achieving 95% accuracy in determining loan acceptance, enhancing decision-making capabilities and risk assessment processes.

Personal Portfolio HTML/CSS, JavaScript, React
- Implemented keyboard navigation and focus management techniques to enhance usability for users who rely on keyboard navigation, facilitating intuitive interaction and improving overall accessibility.
- Integrated responsive design principles to optimize accessibility across various devices and screen sizes, enhancing usability and ensuring a seamless browsing experience for users.
- Leveraged JavaScript to incorporate interactive elements such as dynamic content loading, form validation, and smooth scrolling, enhancing user engagement and functionality.

PROFESSIONAL EXPERIENCE

Cottage Inn   *Fenton, MI*
Delivery Specialist   *May 2023 - July 2023*
- Efficiently delivered pizzas and other food items to customers' locations within specified timeframes, ensuring timely and accurate service.
- Thrived in a fast-paced, dynamic work environment, adapting to changing order volumes and peak hours.

SKILLS

Computer Languages   C/C++, R, Python, Matlab, JavaScript, HTML5/CSS, Julia

Softwares Git, Linux, Windows