

# Ali R. Mehaidli

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## EDUCATION

### Wayne State University

Detroit, Michigan

B.S.E. in Computer Science

May 2025

- o **Concentrations:** Software Development
- o **GPA:** 3.5/4.00
- o **Related Coursework:** Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Combinatorics, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications

## EXPERIENCE

### Wayne State University

Detroit, Michigan

Computer Science Tutor

Feb 2022 - Aug 2024

- Demonstrated expertise in computer science and programming through tutoring. Assisted individuals with complex topics, debugging, and problem-solving.
- Facilitated learning by conveying intricate computer science concepts in a clear and accessible manner. Established open lines of communication with students, fostering a collaborative and supportive learning environment.
- Tailored tutoring to diverse needs and learning styles. Adapted to multiple languages and technologies, showcasing versatility and commitment to industry trends.

## PROJECTS

### Graph-Based Task Scheduler

Detroit, Michigan

Lead Developer

- Implemented an adjacency list representation of a graph to model task dependencies within a complex system.
- Utilized depth-first search (DFS) algorithm for topological sorting of tasks, ensuring optimal execution order.
- Employed a custom priority queue based on task priority levels, optimizing the scheduling of tasks for efficient project completion.

### Dynamic Data Analyzer

Detroit, Michigan

Lead Developer

- Implemented a custom dynamic array for efficient management of variable-sized data, optimizing memory usage and enabling seamless resizing.
- Utilized a hash table for rapid data retrieval, reducing lookup time and enhancing overall performance.
- Integrated a priority queue to efficiently prioritize and process data based on specified criteria, ensuring swift task execution.

### Interactive Portfolio Website

Detroit, Michigan

Lead Developer

- Designed and implemented a responsive and visually appealing portfolio website using HTML, CSS, and JavaScript.
- Integrated interactive elements with JavaScript to enhance user engagement and provide a dynamic user experience.
- Demonstrated proficiency in front-end development, incorporating modern design principles and UX/UI best practices.

### Graph-Based Social Network Analysis

Detroit, Michigan

Lead Developer

- Developed a graph data structure to model social relationships within a dataset, allowing for insightful analysis of complex connections.
- Implemented depth-first search (DFS) and breadth-first search (BFS) algorithms for traversing the social graph, providing valuable insights into network connectivity.
- Utilized a combination of adjacency lists and matrices to represent relationships, optimizing data retrieval and facilitating efficient graph operations.

## SKILLS

**Programming:** C++, Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, MATLAB, C, Swift (iOS)

**Tools:** Git, PyCharm, Android Studio, IntelliJ, Eclipse, Jupyter Notebooks, AWS, Bootstrap, Spring Boot, Agile