

# OMID SHAHIDI

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## EDUCATION

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### University of Michigan

Bachelor of Science in Engineering in Computer Science and Data Science

Engineering Honors Program

GPA: 3.56/ 4.00

Ann Arbor, MI

May 2023

Coursework: Algorithms and Data Structures, Programming and Data Structures, Discrete Mathematics, Product Design, Linear Algebra, Computer Organization

## WORK EXPERIENCE

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### University of Michigan Taubman College of Architecture

Research Assistant

Ann Arbor, MI

Nov 2019 - Apr 2020

- Utilized Augmented Reality for Digital Fabrication to optimize the current program which enables the human user to interact effectively with robotic arms for object placement
- Researched different computer vision algorithms for further implementation by the research team to enhance the robotic arm's spatial understanding
- Collaborated with a multidisciplinary team of 5 to create a fabrication setup and deploy workflow for timber framing

## LEADERSHIP EXPERIENCE

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### Michigan Research and Discovery Scholars (MRADS)

Peer Mentor

Ann Arbor, MI

Aug 2020 - Present

- Mentoring first year students participating in MRADS community in academics, research, and transition into the college setting
- Communicating directly with 3 students 1-on-1 on a weekly basis to ensure their personal success and resolve their individual academic and social concerns
- Engaging in a diverse community with many different identities and creating an inclusive community through programming and being involved in various community events

## PROJECTS

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### Relational Databases C++

- Implemented a database containing multiple tables which allowed manipulations such as merging, searching, and sorting tables in efficient time and memory by using hash tables, maps, and other data structures
- Evaluated the run time and storage trade offs for storing and accessing data in multiple data structures resulting in a better understanding of data representation and algorithms

### Personal Website HTML, CSS, JS

omids.me

- Designed and programmed a responsive website for my personal portfolio to share my projects and interests
- Utilized Spotify API and p5.js library to create an engaging website

### Office Hour Queue Simulator C++

- Created a REST API integrated with a real-world web network that simulated a class Office Hour queue in which students could submit help request
- Formatted GET, POST, and DELETE HTTP requests by deserializing JSON objects, manipulating data, and serializing the data structure as a JSON object which was sent as response to client

## SKILLS

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Programming: C/C++, Java, HTML/CSS, Python, JavaScript, Unity, Git, Unix

Languages: Fluent in Persian

## ACTIVITIES

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### Michigan Research and Discovery Scholars

Aug 2019 - Present

### MProduct (Product Management Organization)

Jan 2020 - Present

### Michigan Intercollegiate Polo Team

Jan 2020 - Present

Interests: Electronic Music Production, Podcasts, Education, Philosophy