# Abdulaziz Houtari

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## Education

JAN 2024 - MAY 2025
**Michigan State University, East Lansing** *– Master of Science in Computer Science*

AUG 2019 - AUG 2023
**University of Michigan, Dearborn** *– Bachelor of Science in Computer Science (High Distinction)*

## Languages

- C, C++, C#
- Python
- Javascript, Typescript (React & React Native)
- Java
- SQL
- HTML, CSS

## Skills

- Software Documentation
- Cloud Computing (AWS, Google Cloud, Heroku)
- Full-Stack Development
- Tensorflow & PyTorch
- Data Pre-Processing (Pandas, NumPy, SciPy)
- CI/CD, Git, and Version Control

## Projects

SEP 2024 - DEC 2024
**Michigan State University, East Lansing** *–MRI Brain Tumor Detection and Segmentation using AI*
- I proposed the idea of using AI to enhance the detection and segmentation of brain tumors from MRI scans.
- I implemented multiple models, including DeepLabV3 and UNET, to efficiently detect and segment brain tumors in MRI images.
- I created a website interface to upload MRI images and infer results in real-time in 3D, allowing users to interact with the segmented tumor regions.

JAN 2024 - MAY 2024
**Michigan State University, East Lansing** *– Research Paper in Distributed Systems and AI*
- Constructed the idea of integrating artificial intelligence into unstructured peer-to-peer networks to better improve the efficiency of flooding algorithms in query search..
- Collaborated with two graduate students to create a proposal of our research and then adjusted it accordingly based on the received objective feedback.
- Managed to follow a strict timeline and a distributed workload.
- Adapted rapidly to working with new software, more specifically in creating peer-to-peer networks.

JAN 2023 - MAY 2023
**University of Michigan, Dearborn** *–Anomaly Detection using Deep Learning*
- Cooperated with a master's student to test out, implement, and review a state of the art research paper.
- Familiarized myself with computer vision and anomaly detection in mind.
- Rebuilt neural network autoencoders based on the paper's description using both Tensorflow and PyTorch.

# Awards

Received an **honorable mention award** at the senior design day competition in the College of Engineering and Computer Science at the University of Michigan, Dearborn April 2023 [Senior Design Competition | University of Michigan-Dearborn](#)

# Volunteer Experience

SEPT 2024
**MSU Career Services** – *Fair Volunteer*

- Assisted in coordinating event logistics by guiding attendees and offering support to employers during booth setup and teardown.
- Played a key role in organizing various components of the fair, ensuring smooth operations and efficient workflow.
- Provided assistance to attendees and exhibitors by answering questions and resolving issues as needed.

# Fluency

Native Arabic speaker and fluent in English