

Eric Zhang

734-546-0902 | emzhang@umich.edu | [linkedin](#) |

Education

University of Michigan

*Bachelor of Science in Engineering in **Computer Science***

Ann Arbor, MI

May 2025

- **GPA: 4.0/4.0**
- **Relevant Coursework** : Data Structures & Algorithms, Computer Organization, Theory of Computer Science, Software Engineering Discrete Mathematics, Linear Algebra, Multivariable & Vector Calculus

Skills

Languages: C/C++, Python, MATLAB

Tools and Frameworks: git, Vue, pandas

Work Experience

Michigan Medicine

Machine Learning Research Assistant

May 2023 - Aug 2023

Ann Arbor, MI

- Developed a privileged logistic regression pipeline for identifying Acute Respiratory Distress Syndrome in chest x-ray embeddings, achieving an AUC over 84 percent
- Produced a localization map highlighting critical areas within chest x-rays used by Convolutional Neural Nets for identifying Acute Respiratory Distress Syndrome
- Leveraged 15 minute intervals of Apple Watch heart rate data to predict Atrial Fibrillation events 5 minutes in advance, attaining an accuracy over 69 percent
- Utilized Pandas and Excel to manipulate and analyze large amounts of patient data

All Seasons Ann Arbor (Senior Living)

Server

May 2022 - Aug 2022

Ann Arbor, MI

- Provided personalized food service to elderly individuals, ensuring a comfortable and enjoyable dining experience
- Oversaw food preparation and managed food service operations for optimal efficiency and customer satisfaction

Project Experience

Michigan Mars Rover Team

Teleoperation Team Member

Sep 2022 - Present

Ann Arbor, MI

- Developed interactive user interface components for the rover's GUI using Vue.js, enabling remote control of the rover and real-time data visualization
- Utilized Django for publishing and subscribing to Robot Operating System (ROS) topics, enabling communication between the rover and the GUI

Course Projects

Post Topic Identifier | C++

April 2023

- Implemented a Naive-Bayes classifier to identify the subject of posts in online question-answer forum Piazza, achieving an accuracy of over 85 percent

Autonomous Drone Flight Controller | Python

Aug 2022 - Dec 2022

- Collaborated with a team to implement a PID flight controller using python capable of maintaining the drone's altitude within a 1 meter margin and detecting and avoiding obstacles at a rate above 98 percent

Activities

Michigan Marching Band, *Member*

Aug 2022 - Present