

# Eric Zhang

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## Education

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### University of Michigan

Ann Arbor, MI

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

*Expected Graduation May 2025*

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

## Skills

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**Languages:** C/C++, Python, MATLAB

**Tools and Frameworks:** git, Vue, pandas

## Work Experience

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### Michigan Medicine

Ann Arbor, MI

*Machine Learning Research Assistant*

*May 2023 - Aug 2023*

- 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)

Ann Arbor, MI

*Server*

*May 2022 - Aug 2022*

- Provided personalized food service to elderly individuals, ensuring a comfortable and enjoyable dining experience

## Project Experience

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### Michigan Mars Rover Team

Ann Arbor, MI

*Teleoperation Team Member*

*Sep 2022 - Present*

- 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

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### 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 capable of maintaining the drone's altitude within a 1 meter margin and detecting and avoiding obstacles at a rate above 98 percent

## Activities

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**Michigan Marching Band, Member**

Aug 2022 - Present