

Michael (Zhenhang) He

701 E University Ave, Ann Arbor, MI 48109 | +1 734-272-7124 | michaehz@umich.edu

Education

University of Michigan, Ann Arbor, MI

Graduating 2022

Studying: Bachelor of Science in Computer Science

Major GPA: 3.97/4.00

Relevant Courses: EECS445:Introduction to Machine Learning, EECS484:Database Management System, EECS281:Data Structure & Algorithm, EECS370:Introduction to Computer Organization

Relevant Experiences

WiseTech Global: CargoWise One

July 2019 - Aug. 2019

Software Development Intern

- Developed the Frontend UI for Transport logistics information using Winform and C# to expand clients data collection by navigating through 200 million lines of code and extracting relevant parts
- Redesigned the training project for future employees to smoothly adapt to the infrastructure and coding practice of the company in collaboration with other co-workers
- Profiled 6 work items by scouring code and applying tweaks to improve software performance

Experimental Economics Research: (Women on Wikipedia)

Jan. 2019 - May. 2019

Research Assistant

- Synthesised multiple Economic papers on related issues to acquire analytical tools, skills, and knowledge for real-world economic research to extract data from Wikipedia for further analysis
- Spent 80+ hours experimenting with different methods of data collection and wrote a research paper in the end using my data analysis skills and critical thinking resulting in a presentation on my research
- Conducted experiments, analyzed data and drafted reports in collaboration with graduate students to gather data and observe how different elements within Wikipedia could affect user participation

Projects

Food Recognition Software:

- Designed two machine learning model for both supervised and unsupervised deep learning using python tensorflow and pytorch that classifies different food image inputs base on 5 categories
- Applied CNN (resnet18) and autoencoder network to enhance the efficiency of the model as well as the decrease the possibility of overfitting to the training model
- Introduced new feature selection method that reduces the size and complexity of the input data and simplified the model complexity through drop out technique

Stock Market Simulator

- Designed a system using C++ that simulates stock market operations by taking order data from a txt file and conduct efficient trade based on price and time utilizing Pairing Heap and Priority Queue
- Programmed additional features that gather statistical data such as median and optimal trade mode to better understand trades that could happen with the possible data set

Other Experience:

Chinese Student and Scholar Association (CSSA)

Jan. 2019 - Present

Director of Alumni Relations Department

- Spearheaded 2 alumni seminars for alumni to share their insight about different industries involving 70+ audiences and 7 alumni speakers spending a total of 30+ hours with preparation and execution
- Established connections with 11 alumni and conducted 3 career interviews capturing their experiences and advices for current undergraduate students,bridging a connection between school and industries

Skills and Interest

Technical Skills - Experienced with C++, C#, Python, and Java, Proficient in MATLAB, Linux, and MS Office
Languages: English(Native) and Chinese (Native)

Other Experiences - Studied Buddhism in a monastery in rural China for the summer of 2018