

Yimin Wang

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EDUCATION

University of Michigan, Ann Arbor

Ann Arbor, MI

Bachelor of Science and Engineering in Data Science

Aug. 2024 – May. 2026

- Relevant Courses: Web Systems, Data Structures and Algorithms, Probability and Statistics, Intro to Machine Learning, Intro to NLP, Statistics and Artificial Intelligence, Applied Regression Analysis

Shanghai Jiao Tong University

Shanghai, China

Bachelor of Science in Mechanical Engineering

Aug. 2022 – Aug. 2026

- Top 10%
- Relevant Courses: Design and Manufacturing I II, Laboratory I, Thermodynamics, Solid Mechanics
- Scholarships:
 - * 2023 The John Wu& Jane Sun Sunshine Scholarship
 - * Thirteenth Freshman Robotics Competition Third Prize

TECHNICAL SKILLS

Programming: C/C++, Python, HTML/CSS, JavaScript, SQLite, R, Elm

Tools: Git, Linux, Shell, Jupyter Notebook, PyTorch, L^AT_EX

RESEARCH EXPERIENCES

Low-power Intelligent Gas Sensor

Sep 2023 – May 2024

Shanghai Jiao Tong University

Shanghai, China

- Collaborated closely with the development team to do the sensor experiment and collect sensor experimental data
- Made an enhancement and optimization of the analytical model based on the electronic nose device for the gas sensor by Python under Keras framework
- Integrated algorithm using four different algorithms to predict the type and concentration of unknown gas mixtures
- Co-author of 2023 IEEE SENSORS conference: *A Novel Approach to Air Quality Monitoring: Towards Miniature, Self-organized and Low-power Device*

LLM Agent Development

Dec 2024 – present

University of Michigan

Ann Arbor, MI, USA

- Conducted comprehensive literature reviews on agent safety and multiagent systems, synthesizing insights from a broad range of recent studies
- Developed agent tools by integrating and extending functionalities from established GitHub repositories
- Participated in a multi-agent conversational simulation project by designing experiments, executing simulations, and optimizing code, resulting in notable improvements in system performance

PROJECTS

Website Page Game Developmen | *Elm*

- Designed and implemented an intuitive and visually appealing user interface for the game, focusing on enhancing user experience through responsive layouts, clean navigation, and user-friendly controls.
- Engineered part of gameplay mechanics using the messenger framework, ensuring smooth interactions and consistent messaging between different game components
- Created hand-drawn illustrations and graphic assets for the entire game, maintaining a consistent art style that complements the game's narrative and tone.

Static & Dynamic website pages | *HTML/CSS, Python, SQLite*

- Developed user, post, comment, and like creation, updating, and deletion features using the Flask framework, with database management handled by SQLite
- Configured an AWS EC2 instance and successfully deployed the project, ensuring smooth operation in a cloud environment