

# Yimin Wang

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## EDUCATION

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### 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

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

**Tools:** Git, Linux, Shell, Jupyter Notebook, PyTorch, L<sup>A</sup>T<sub>E</sub>X

## RESEARCH EXPERIENCES

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### 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*

## PROJECTS

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### 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