

Michael Tang

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EDUCATION

University of Wisconsin-Madison | Madison, WI

September 2023 - May 2027

B.S. Computer Science, Data Science

GPA: 3.88

- **Relevant Coursework:** Data Structures and Algorithms, Linear Algebra and Matrices, Discrete Mathematics

EXPERIENCE

Research Assistant - Dr. George Thomas

Oshkosh, WI

Large Language Model Research [Python, Java, Docker, Ollama, Git, HuggingFace] May 2024 - August 2024

- Assessed and integrated 5 different open source large language models into applications that were able to access the interface programmatically.
- Provided new data and fine-tuned the large language models response taking no longer than 30 minutes through a cloud interface. All while being mindful of hardware, memory, space, and other potential constraints.
- Worked with 1 other assistant to develop a survey paper on how to choose 1 from several large language models offered by Ollama, fine tune it, and deploy to a specific use case.

Machine Learning for Engineering Research

Madison, WI

Undergraduate Research [Python, SQL, Sckit-Learn, MAST-ML]

January 2024 - April 2024

- Engaged in project-based research with the Informatics Skunkworks program that involved science and engineering aspects, honing in on machine learning specifically.
- Collaborated with a diverse group of peers and mentors to work on delivering concise research projects that stemmed from an implementation of applied data science techniques.

PROJECTS

Personal Website: *HTML, CSS, JavaScript*

Summer 2024

- Engineered a responsive and visually appealing website displaying both achievements and personal projects/information through HTML, CSS, and JavaScript.
- Implemented animations and interactable features for ease of use. Optimized media display to make sure mobile and desktop functionalities were equivalent and able.

Tic Tac Toe App: *JavaScript, HTML, CSS*

Winter 2024

- Developed an interactive application with JavaScript, HTML, and CSS, which allows two users to play a game of tic tac toe with an intuitive and responsive UI.
- Implemented logic, user input, and endgame outcome to ensure correct player moves and win conditions. Prompts users at the end for replayability.
- Enhanced web to deliver a slick and aesthetically pleasing design that allows for user engagement and visual appeal.

Open Source LLM Research: *Python, Ollama, HuggingFace, LitGPT*

Summer 2024

- Fine tuned an open source large language model hosted by Google, Gemma, and deployed to a user interface that allowed for endless access to individuals everywhere.
- Uploaded fine tuned model to HuggingFace, where the GGUF quantized version was also available to be used for the Ollama interface.

AWARDS/SKILLS/INTERESTS

- **Coding Languages:** Python, Java, JavaScript, TypeScript, C++, HTML, CSS, SQL
- **Technical Skills and Frameworks:** Docker, Git, Ollama, VSCode, HuggingFace, Github, IntelliJ
- **Interests:** Data Structures and Algorithms, Large Language Models, Traveling, Volunteering, Orchestral Music/Playing

