

# Catherine Kim

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## SKILLS

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- **Web Technology and Frameworks:** HTML, CSS, Vue.js
- **Scripts/UI:** JavaScript, Bootstrap, Figma
- **Languages:** C/C++, Python
- **Technologies:** Git, Linux

## WORK EXPERIENCE

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### Research Assistant, *With Dr. Lubomir Hadjiyski*

May 2021 – Aug 2021

*University of Michigan*

*Ann Arbor, MI*

- Radiology and lung cancer research, concentrating on using machine learning for detection of lung nodules in computed tomography.

### Rewriting the Code

Feb. 2021 – May 2021

*University of Michigan*

*Ann Arbor, MI*

- Founded an RTC chapter at UM and coordinated meetings with other UM coding clubs and UM Professors.
- Increased RTC membership at the University of Michigan by 50%.
- Oversaw updating and developing a social media page utilizing Adobe Photoshop and Canva.

## PROJECTS

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### MROVER Project Team, University of Michigan

Sept. 2020 – Present

*Teleoperations Team*

*Ann Arbor, MI*

- Organized a GUI using CSS, HTML, JavaScript, and Vue.js, that interacts with the Rover in real-time by sending and receiving messages through LCM channels.
- Created a generate report button that generates a CSV file containing spectral and thermistor data from LCM channels.

### Office Hours Queue Simulator

Winter 2021

*Language: C++*

- Designed a back-end office hours queue web server that can be run locally and interacted through a web browser.
- Built a small web server that can host a browser session that can post, get and delete responses.
- Deployed application to production by reading and writing an HTTP subset on stdin and stdout.

### Machine Learning Word Sorting

Winter 2021

*Language: C++*

- Designed a machine learning program using C++ that automatically identifies the subject of posts from Piazza, an ask and answer forum.
- Developed an algorithm using recursion techniques that can classify over 11,000 posts with 90% accuracy.

## EDUCATION

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### University of Michigan

May 2024

*BS, Computer Science and Cognitive Science*

*Ann Arbor, MI*

- University Honors; 3.8/4.0 GPA.
- Relevant Coursework: Data structures and algorithms, Discrete math