

Catherine Kim

Software Engineer | Product Designer

<https://catkims.github.io/portfolio/>

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EDUCATION

UNIVERSITY OF MICHIGAN

ANN ARBOR, MI | 2020 - May 2024

Cumulative GPA: 3.845/4.0

BS Computer Science, Cognitive Science

RELEVANT COURSES

EECS 183 - Elementary programming concepts

EECS 203 - Discrete math

EECS 281 - Data structures and algorithms

EECS 370 - Introduction to computer organization

EECS 376 - Foundations of computer science

ENTR 390 - Digital Product Design

SKILLS

Software

Photoshop

Illustrator

Premiere

Figma

Pivotal Tracker

Invision

Design

Design Research

Design Strategy

User Interface

Storytelling

Prototyping

Product Design

Wireframing

Usability Testing

TECHNICAL SKILLS

Languages

C

C++

Python

Web Technology

HTML

CSS

Vue.js

Javascript

Technologies

Git

Linux

Scripts/UI

Bootstrap

EXPERIENCE

Sept 2020

Present

MROVER PROJECT TEAM | ANN ARBOR

Teleoperations Team

- 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.

May 2021

Aug 2021

UNIVERSITY OF MICHIGAN | ANN ARBOR

Research Assistant With Dr. Lubomir Hadjiyski

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

Feb 2021

May 2021

REWRITING THE CODE | REMOTE

Marketing Intern

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

PROJECTS

Winter 2021

OFFICE HOURS SIMULATOR

C++

- Implemented 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.

Winter 2021

MACHINE LEARNING POST SORTING

C++

- Coded a machine learning program that automatically identifies the subject of posts from Piazza.
- Developed an algorithm using recursion techniques that can classify over 11,000 posts with 90% accuracy.