

# Weiji Li (Victor)

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## Objective

I am seeking for a Software Engineer Internship in Summer 2022. My final graduation date (expected) is May 2023. (Expected to finish the Bachelor's degree in May 2022 and pursue a Master's degree from September 2022 to May 2023)

## Education

### • University of Michigan

Ann Arbor, MI

GPA: 4.0/4.0

Aug 2019 – May 2022 (Expected)

*Bachelor of Science in Computer Science & Data Science, Minor in Mathematics*

- **Course Highlights:** Machine Learning, Natural Language Processing, Computer Vision, Conversational AI, Operating System, Web System, Computer Security, User Interface Development, Algorithms, Computer Organization, Data Structures.

## Experience

### • Tesla

Shanghai, China

*Software Engineer Intern*

May 2021 – Aug 2021

- Designed and built scalable, high-availability systems and APIs for Tesla's in-car Media experiences.
- Refactored existing QQ(music) and Ximalaya(podcast) media services; Reduced 80%+ network traffic and added new features.
- Built a new Karaoke media service from scratch and presented to the executive team.

### • Identify Action Reasons in Lifestyle Vlogs (Natural Language Processing)

Remote

*Research Assistant, Advised by Prof. Rada Mihalcea*

Jan 2021 – Present

- **Research Topic: Analyze human actions and action reasons in lifestyle vlogs using computer vision and NLP.**
- Wrote code that automatically analyzes actions and corresponding reasons with data, examples and graphs for a given video.

### • Lianlian Pay

Hangzhou, China

*Software Engineer Intern*

Jul 2020 – Aug 2020

- Designed and built several services including data query and account verification on a financial Blockchain platform.
- Refactored parse service of the blockchain platform; Reduced 50% network traffic and provided comprehensive data analysis.
- Built an online IDE for smart contracts on the blockchain; Optimized the Vue.js build which made the loading 3X faster.

### • Crossmod (Human-Computer Interaction)

Ann Arbor, MI

*Research Assistant, Advised by Prof. Eric Gilbert*

Sep 2019 – May 2021

- **Research Topic: Implement Crossmod, which automatically detects toxic comments on Reddit using ML model.** 🔗
- Deployed Crossmod on AWS cloud server; Implemented dynamic re-training and multi-thread prediction which made the prediction of ML models 10X faster and detected 50% more toxic comments than the previous automods.
- Evaluated performance using automatic data analysis and human experiment through r/Futurology.

### • Ant Group (Alibaba)

Hangzhou, China

*Software Engineer Intern*

Jul 2019 – Aug 2019

- Designed and Built back-end server and front-end dashboard website for a Machine Learning Platform(PAI).
- Implemented 10+ ML algorithm templates (used for 1000+ times), including image classification and random forest.
- Built a Kubernetes job builder for GPU clusters; Wrote data processing SDKs to make machine learning more accessible.

## Selected Projects

- **Submitty:** A course management, assignment submission and grading system for college-level CS courses; Served as a regular open source contributor; Achieved features such as group assignment submission, grade analysis and UI improvements. 🔗
- **Image Colorization:** Colorize black-white images using regression, classification and GAN trained on small dataset. 🔗
- **Twitter Sentiment Analysis:** Predict people's sentiment trend towards COVID-19 from tweets using CNN and Bert-RNN. 🔗
- **The Flow:** A smart water bottle that keeps track of a person's daily water consumption and performs real-time analysis; Built with Arduino and Python; Won the 1<sup>st</sup> place in Makeathon 2020 at University of Michigan.

## Skills

- **Programming Languages:** C++(proficient), Python(proficient), Java(proficient), Golang(proficient), JavaScript, C
- **Technical Skills:** SQL, Shell script, Pytorch, Keras, Kaldi, AWS, React, React Native