

# Xinyi Wang

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## Education Background

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2017.9 – Present      University of Michigan - Shanghai Jiao Tong University Joint Institute  
Electronical and Computer Engineering

2020.9 – Present      University of Michigan (Ann Arbor) - User Experience Design

## Project Experience

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**Blog Community Based on PHP** 2019/12 - 2020/03

The project is rendered by front end language HTML5 and CSS3. PHP is used to realized the functions such as posting blogs, editing, viewing, and admin operations based on MySQL.

**Music Festival Tiny App Development** 2019/07 - 2019/11

The project is built based on Wechat WXML and WeUI components. Functions such as announcement informing and singing up for activities are realized for users.

**Red Dragonfly App Development** 2020/02 - 2020/03

The project is built based on the frame of VUE.js which can handle the global events with the help of Vue-Router. Advanced functions such as lazy loading are implemented for better user experience.

**Improvement on marketing project of Dali Traditional Honey industry** 2018/12 - 2019/01

Based on the practical inspection and big data analysis, suggestions on China Dali tradition honey industry marketing strategies are raised in the Shanghai Jiaotong University Global Challenge Project, which help extend the market of Dali honey and improve the branding.

## Research Experience

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**Smart Passive Gait Retraining System** 2017/10 - 2018/02

This project is directed by Professor Shan Johnson, mainly through python to conduct big data comparative analysis, track quantification and formulate the normalization plan of 28 experimenters' plantar pressure. Through regular research cooperation with Ruijin Hospital, substantial results have been achieved, successfully helping patients with abnormal gait gradually passively change their gait. This project successfully applied for a patent.

**AI-enabled all-stack and high-throughput screening system for cervical cancer** 2020/03 - Present

The neural network is used to assimilate heterogeneous data of cervical cytosolic images of different manufacturers and different shooting conditions, and perform weighted mapping of some features to complete image data migration. This project is still under development.

## Activities

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**Shanghai Jiao Tong University Oasis Music Festival Art Director** 2018/03 – 2019/11

I am responsible for the main visual and related online and offline publicity, as well as the development of WeChat applet. The music festival achieve the 4000 cumulative number of people.

## **Skills**

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- Familiar with ES6/HTML5/CSS, familiar with dynamic layout methods on PC and mobile
- Proficiency in VUE development, practical experience in multiple projects, familiar with popular component libraries such as axios
- Familiar with SQL language and MySQL database
- Familiar with code management tools such as Git and common Linux commands
- Understand the principle of webpack and other front-end automated construction packaging tools
- Familiar with Python, can be used in data analysis & visualization, Image recognition scenarios
- Familiar with data structure and algorithms, understand some machine learning algorithms
- Familiar with Photoshop, Illustrator, Indesign and other drawing software, understand CAD operation
- Fluent in English, TOEFL100

## **Rewards**

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- 2017-2018 Shanghai Jiao Tong University Excellent Student
- 2018-2019 Shanghai Jiao Tong University Outstanding Scholarship of Undergraduate