WENGRAN XIAO

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EDUCATION

University of Michigan   **Ann Arbor, MI, US**
MS in Information, User-centered Agile Development Track, GPA 4/4   **expected 05/2024**

Courses: Data Structure and Algorithm; Operating System; Intro to Interactive Design; Web Design; Building Interactive App; Database App Design; Servers, Shell & Git; SQL & Database.

Nanjing University   **Nanjing, China**
BA in Spanish Literature, Information Management minor, GPA 4.55/5   **09/2018-06/2022**

University of California, Berkeley   **Berkeley, CA**
International Student Exchange Program, GPA 3.91/4   **01/2021-05/2021**

SKILL & LANGUAGE

C++, Python, SQL, Tableau, JavaScript, React, HTML, CSS, AJAX, Django, Flask, PHP

INTERNSHIP

Greenpeace   **Beijing, China**
Software Development Intern, GP Next Team   **05/2021-11/2021**

Carbon Neutral Action Tracker website development (Link)
- Created a database of the zero-carbon actions of 200+ Chinese corporations using Python and SQL.
- Supported web development in the search and filter functionality, including add, edit and delete capabilities, and increased the page loading efficiency using jQuery, Angular, HTML and CSS.
- Improved the responsive design following the mobile-first principle by using CSS rem and vw to optimize the layouts of interactive data visualization pages and article displaying pages.
- The website now has 100+ views daily and is used by other organizations for research.

Text analysis and prediction application improvement
- Optimized the algorithm of the machine learning models and increased the accuracy of the text classification by 34%, to gather public opinions on Chinese environmental protection policies.

University of California, Berkeley   **Berkeley, CA**
Research Assistant   **03/2021-05/2021**
- Improved an interactive map web app by developing RESTful web services to manipulate dynamic datasets and creating 2D animations, using React, AJAX, HTML, CSS. The app aims to report the cluster and prevalence of covid-19 and has identified outbreaks in 6 locations around the US.
- Queried Twitter API and fetch data to create a database of 100+ vaccination hesitancy and anti-vaccination posts to analyze the effect of misinformation on vaccination, using Python and SQL.

The International Union for Conservation of Nature   **Beijing, China**
Website Development Intern   **06/2020-08/2020**
- Designed optimized home page using HTML and CSS to support organization' s publicity and promotional needs. Conducted usability tests to define more accessible and friendly functionalities.

COURSE PROJECT

Subreddit recommendation system (Link)   **Fall, 2022**
- Extracted data from Reddit API and web scraping to create a website with a recommendation system using Python and Flask, helping users find personalized subreddits for covid medical care.

Image Steganography System (Link)   **Spring, 2023**
- Implemented an image steganography technique using C++ that deal ppm and txt files, allowing users to encode messages into images and decode the images to read the hidden message.