Oliver Gao

ogao@umich.edu | 734-531-9817 | olivergao.org

Education

University of Michigan **Ann Arbor, MI**

Bachelor of Science in Engineering in Computer Science *May 2024*

GPA: 4.0/4.0, *William J. Branstrom Freshman Prize*

Relevant Coursework: Data Structures and Algorithms, Probability and Statistics, Linear Algebra, Discrete Math

Skills

Web Technologies: HTML, CSS, JavaScript, React

Programming: C++, Python

Work Experience

Michigan Institute for Data Science (MIDAS) **Ann Arbor, MI**

Student Web Designer *Jul. 2021 - Present*

- Create new web pages according to specifications using HTML, CSS, and JavaScript
- Redesign existing pages to be more dynamic, accessible, and visually appealing
- Collaborate with partner research centers to develop responsive web pages that effectively convey research findings

Projects

Design.io

Independent Project *Apr. 2021 - Jul. 2021*

- Designed and developed an online platform where people can share and get inspired by everyday designs using HTML, CSS, and React with data stored in MongoDB
- Implemented a REST API and user authentication using Express and NodeJS

Michigan Data Science Team **Ann Arbor, MI**

Renewable Energy Data Visualization *Jan. 2021 - Apr. 2021*

- Cleaned and analyzed global renewable energy production data
- Created interactive data visualizations using D3.js to accompany written analysis in an article on ObservableHQ

Earthquake Damage Prediction *Sep. 2020 - Dec. 2020*

- Manipulated data, created data visualizations, and deployed a random forest model to predict earthquake building damage using pandas, seaborn, and scikit-learn
- Researched background information on the Nepal earthquake to analyze and explain deviations in damage based on different building features

Student Organizations

Michigan Data Science Team **Ann Arbor, MI**

Executive Board / Education Committee *Apr. 2021 - Present*

- Create introductory data science tutorials for 40+ new members each semester
- Plan club events, recruit new members, and discuss club goals