

Oliver Gao

ogao@umich.edu | olivergao.org | linkedin.com/in/oliver-gao | 734-531-9817

Education

University of Michigan

Ann Arbor, MI

Bachelor of Science in Engineering in Computer Science

May 2024

- **GPA:** 3.99/4.0, James B. Angell Scholar
- **Relevant Coursework:** Data Structures and Algorithms, Web Systems, Databases, Machine Learning
- **Skills:** Python, JavaScript, React, C++, C#, Go, Node.js, SQL, HTML, CSS, Git

Work Experience

Uber

San Francisco, CA

Software Engineer Intern

May 2023 – Aug. 2023

- Implemented a new version of the Uber OAuth consent screen in collaboration with product manager and designer, resulting in a 2.5% increase in click-through rate for 80K daily users
- Constructed a design document and implemented the change account feature in Go and React to address customer pain points on the Uber OAuth consent screen
- Created Grafana dashboards to monitor metrics and increase observability of new feature rollouts

University of Michigan Transportation Research Institute

Ann Arbor, MI

Software Developer

Jan. 2023 – Present

- Developed the frontend and backend of a new tagging feature that allows users to mention other people in posts using React, MongoDB, and Node.js
- Built a feature to promote community responses to user questions, resulting in elevated user interaction
- Identified, debugged, and fixed over 10 critical bugs to improve overall user experience

TechSmith Corporation

East Lansing, MI

Software Engineer Intern

May 2022 – Aug. 2022

- Implemented a new automated testing framework for Snagit software upgrades that reduced manual testing time by 90% using C# and PowerShell
- Built an intuitive user interface in Snagit in collaboration with UX designers for the uninstall old versions feature to satisfy a top 5 customer request using C# and WPF/XAML
- Developed a suite of 10+ automated user interface tests using object-oriented programming to increase the quality and speed of software releases

Michigan Institute for Data Science

Ann Arbor, MI

Web Developer

Jul. 2021 – Dec. 2022

- Developed an online application to connect 200+ students with employers through a resume submission portal and employer dashboard
- Designed and built responsive webpages to drive 40K monthly views using JavaScript, HTML, and CSS

University of Michigan College of Engineering

Ann Arbor, MI

Student Researcher

Sep. 2021 – Apr. 2022

- Developed a data processing pipeline using Python and pandas to clean and transform a 177GB dataset of U.S. opioid shipments from 2006-2014
- Analyzed geographic and demographic patterns associated with opioid distribution
- Created data visualizations to communicate results using Python Altair

Projects

Design.io (Personal Project)

Apr. 2021 – Jul. 2021

- Implemented a responsive front end in React that allows users to create, update, and delete designs
- Built a backend and REST API in Express and Node.js to handle user authentication and communicate with a MySQL database that stores all the data for the application