

# Richard Guan

(734)-730-3018  
richardguan.me  
github.com/rguan72

701 E University Ave, Ann Arbor, MI 48109

guanr@umich.edu

---

## EDUCATION

University of Michigan

*Bachelor of Science in Engineering* - Computer Science

GPA: 4.0/4.0

Classes: Data Structures, Introduction to Combinatorics, Accelerated Introduction to Programming, Linear Algebra.

Ann Arbor, MI

Expected: April 2021

## TECHNICAL SKILLS

*Programming Languages:* Python, JavaScript, HTML/CSS, C++

*Other Technologies:* Django, ReactJS, Electron, Flask, Unix, Windows, Android, Git

## PROJECT EXPERIENCE

University of Michigan Solar Car Team — Ann Arbor, MI

- *Software/Strategy Team*

September 2018 - Present

- Developed functionality for multiple sessions of the Python/Django-based web game WarGames to be played at once, and for multiple World Solar Challenge routes to be loaded, in order to better train team strategists for the World Solar Challenge.
- To implement the above features, refactored the WarGames backend using Django/Python and altered the WarGames UI using JavaScript.
- Created an interactive Electron-based desktop app written in JavaScript for Solar Car telemetry to streamline the decision making process of team strategists.

SnapCal Web App — Ann Arbor, MI

- *Project Creator*

September 2018 - Present

- Designed a web app using Django and JavaScript with jQuery that uses computer vision to interpret text from physical fliers to streamline the user experience of adding events to virtual calendars.
- Deployed an alpha version of SnapCal on Google Cloud Platform with 10 users (snapcal.richardguan.me).

MPowered Entrepreneurship — Ann Arbor, MI

- *Startup High School Project Member*

September 2018 - Present

- Selected for the Startup High School team to organize a pitch competition that aims to provide mentors and resources for over 100 high schoolers in the state of Michigan.
- Led efforts for obtaining thousands of dollars of sponsors to fund the pitch competition's prizes, space reservations, and food.

## WORK EXPERIENCE

180 Degree Consulting — Ann Arbor, MI

- *Business Analyst*

January 2019 – Present

- Provided business strategy consulting services to Kiva to continue to engage users on their crowd-vetting platform.

Cincinnati Children's Hospital Medical Center — Cincinnati, OH

- *Research Intern*

June 2017 – August 2017

- Created a computer vision support vector machine written in Python using Numpy and Scikit Learn to diagnose stroke from MRIs.
- Statistically analyzed fMRI data using MATLAB to extract information to be used in a PhD candidate's deep learning neural network to diagnose autism.

## ADDITIONAL

Fix N' Give — Cincinnati, OH

- *President*

May 2017 - August 2018

- Led a team of 14 people and organized a Computer and Accessories Drive event, collecting over 80 computers from the community in order to donate to local schools in need.