Richard Guan

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EDUCATION

University of Michigan **Ann Arbor, MI**
Bachelor of Science in Engineering - Computer Science **Expected: April 2021**
GPA: 4.0/4.0
Classes: Data Structures, Introduction to Combinatorics, Accelerated Introduction to Programming, Linear Algebra.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, HTML/CSS, C++
Other Technologies: Django, 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.
- Implemented the above features by refactoring the WarGames backend using Django/Python and altering 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 — snapcal.richardguan.me Ann Arbor, MI
- *Project Creator* September 2018 - Present

- Designed a web app using Python/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 with 80% photo recognition accuracy on Google Cloud Platform.

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 Michigan.
- Led efforts for obtaining thousands of dollars from 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

- Led UI/UX research efforts for Kiva to improve user retention on their crowd-vetting platform by 3%.

Cincinnati Children's Hospital Medical Center Cincinnati, OH
- *Research Intern* June 2017 - August 2017

- Created a computer vision support vector machine written in Python with Numpy and Scikit Learn to diagnose stroke from MRIs with 77% accuracy.
- Statistically analyzed fMRI data with 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.