CARLETON ZHAO

Software Developer

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Github
747-252-7209

University of California, Irvine
BS in Computer Science,
expected in June 2021
GPA 3.5 / Major GPA 3.7

Competitions

- Beach Hacks 2019
- LA Hacks 2019
- Hack UCI 2019
- SLO Hacks 2019
- LA Hacks 2018
- Hack UCI 2018
- Micromouse
- FIRST Robotics Competition

Programming Languages

- Python 3
- Javascript
- C / C++
- HTML / CSS

Technical Skills

- Git / Github
- React Native
- Data Structures / Algorithms

Awards

- Hack UCI 2019 - Best Joke Hack
- FIRST Robotics Competition 2017 - Regional Finalist

Misc.

- U.S. Citizen

EXPERIENCE

Software Developer - Ureka Science *July 2018 - Present*

- Ureka is a social networking service for researchers
- Learned and used React Native and Javascript
- Implemented new features and fixed reported bugs
- Started initiative to document and comment code.

IOS | Android

Lab Tutor - UCI Information and Computer Science *April 2018 - June 2018*

- Worked with professors and TAs to give feedback on student's coursework
- Guided students in identifying bugs in their code and explained programming concepts in Python
- Assisted about 20 students per day, for 4.5 hours per week over 10 weeks.

PROJECTS

Project in Computer Vision - CS 117 *April 2019 - June 2019*

- Processed 500 images to recover 3D points and put together a 3D Model of a stuffed animal Vulpix
- Learned about structured light scanning and triangulation
- Used Python, numpy, scipy, and OpenCV

Hack UCI 2019 *February 2019*

- Created a mobile application that allows users to rate and review restrooms around them
- It can also point users to the nearest restrooms in emergency situations
- Developed the user interface in React Native and connected the front end to Firebase
- Won Best Joke Hack at Hack UCI 2019

T-Shirt Cannon - Zotbotics *August 2018 - September 2018*

- Learned about the design process of building a robot.
- Wrote the code to control the cannon's release and reset mechanism in Python.
- Helped research and implement how to get our program to run on startup.
- Built using a Raspberry Pi, which controlled a solenoid for our release mechanism.

Programmer - FIRST Robotics High School Team *August 2014 – June 2017*

- Helped determine robot requirements
- Developed the team's first control algorithm using C++
- Inspired other programmers to continue researching and developing better control algorithms
- Team qualified take part in the 2017 FRC World Championships