# CARLETON ZHAO

Software Developer

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**University of California, Irvine**

*BS in Computer Science*,
expected in June 2021
GPA 3.59 / Major GPA 3.66

**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
- React Native
- Data Structures / Algorithms
- REST API

**Awards**

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

**Misc.**

- U.S. Citizen

## EXPERIENCE

**Mobile App Developer - Ureka Science**                    *July 2018 - Present*

Engineer and maintain a social media application using React, React Native, and Javascript. Full time during summer; Part time during the school year.

- Built security and privacy features to allow users to report and block other users
- Sped up loading time of some pages in mobile app by 66%
- Engineered a general React component for infinite scrolling
- Designed UI to sort posts into folders
- Developed a standard documentation format to maintain code
- Performed software maintenance including bug fixing and upgrading React, React Native, and Gradle versions

**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
- Learned about structured light scanning and triangulation
- Used Python, numpy, and scipy

**Hack UCI 2019**                                          *February 2019*

- Created a mobile application that allows users to rate and review restrooms around them, and 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++
- Team qualified take part in the 2017 FRC World Championships