

# Siqiao Ruan

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## OBJECTIVE

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- To obtain a summer internship position as a software engineer in the field of artificial intelligence that will allow me to utilize the skills gained at UCSD and build a long-term career in machine learning and AI.

## EDUCATION

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### University of California, San Diego

La Jolla, CA (09/2017 – 06/2021)

- B.S. in Computer Engineering | Cumulative GPA: **3.95** / 4.00 | Provost Honors
- **Relevant Coursework:** Intro to AI: Statistics Approach; Web Client Language; Software Engineering; Design & Analysis of Algorithm; Advance Data Structure; Machine Learning; Computer Organization & System Programming; Object-Oriented Design & Programming; Circuits & Systems; Analog Design

## WORK EXPERIENCE

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### Cambricon - Intern

Beijing, China (08/2019 – 09/2019)

- Developed a novel trainable quantization method for convolutional neural network in Tensorflow.
- Developed an tensorflow API to accelerate neural network operation using Intel Math Kernel Library.

### CSE Department of UCSD - Academic Tutor

La Jolla, CA (06/2019 – 08/2019)

- Held lab and office hours to help students understand and solve problems in algorithm design.
- Lead discussion session to help students review concept; Graded exam and homework.

### Eversec Technology - Intern

Beijing, China (07/2018 – 09/2018)

- Reverse engineering in assembly (x86 & ARM) using IDA, Wireshark, and OllyDbg.
- Performed security analysis on PC program Tencent Wifi Helper and Android app Xunyu.

## PROJECTS

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### Flowery - Team Manager / Software Development Lead

La Jolla, CA (06/2019 – 09/2019)

- Led a team of 4 developers to create a cross-platform app that allows real-time recognition of flowers.
- Implemented the whole real-time image recognition algorithm pipeline of the program.
- Devised a deep learning high-accuracy neural network for flower recognition.
- **Languages & Framework used:** Python; Tensorflow; React-Native; JavaScript; AWS

### SSH - Front-end Lead

La Jolla, CA (03/2019 – 06/2019)

- Developed a mobile app that facilitates a P2P platform for UCSD students to find off-campus housing.
- Contributed mainly on front-end coding using JavaScript and React Native. Designed the UI of the app.
- **Languages & Framework used:** React-Native; Firebase;

### Robot Arm Motion Planning

La Jolla, CA (11/2018 – 06/2019)

- Designed learning-based model for proxy collision detection that increase the time efficiency using MATLAB and Tensorflow, Python..

## SKILLS

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**Programming Language:** C/C++; Python; Java; MATLAB; R; HTML5/CSS; JavaScript; PHP

**Programming Framework:** React; React Native; Node.js; SQL; JUnit; Tensorflow; Keras

**Languages:** English (Bilingual/Native); Mandarin Chinese (Native)