

Siqiao Ruan

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EDUCATION

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

SenseTime - Intern

Beijing, China (08/2019 — 09/2019)

- Developed and updated the deep learning algorithm for secured facial recognition to increase accuracy.
- Enhanced the learning curve of algorithm using Tensorflow in Python.

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

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.
- Developed the whole real-time image recognition algorithm pipeline of the program.

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.

RESEARCH EXPERIENCE

Advanced Robotics and Controls Lab

UCSD (11/2018 — Present)

- Research in the topic of applying machine learning in 2D robotics motion planning.
- Designed learning-based model for proxy collision detection that increase the efficiency using MATLAB and Python.

Advanced Robot Hand Lab

Tsinghua University (07/2016 — 05/2017)

- Research in the topic of Self-Adapting Under-actuated Humanoid Robot Multi-fingered Hand.
- Designed two innovate structure of under-actuated robot hand that decrease the cost of manufacture.
- Two published paper in IEEE-ROBIO and IFTOMM-MMS; Four Chinese invention patent.

SKILLS

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

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

Engineering Tool: Arduino; AutoCAD; Solidwork; Google Sketchup; 3D-Printing; Laser-Cutting

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