Qingcheng You

(858)-319-7191
San Diego, CA
youqcheng@gmail.com

EDUCATION

Master of Science in Computer Science — Sep 2021 — Jan 2023
University of California, San Diego — GPA: 3.6/4.0
Bachelor of Science in Computer Science — Sep 2017 — Jun 2021
University of California, San Diego — Major GPA: 3.7/4.0

SKILLS

Languages	Python, JavaScript, C/C++, Java, Swift, MySQL
Technologies	PyTorch, React, React Native, Pytest, Node.js
Tools	Git, Docker, Linux, Jenkins, Jira, Firebase, MongoDB, Redis

WORK EXPERIENCES

Software Engineer Intern — **Jun 2022 — Sep 2022**
Accel Robotics — *San Diego, CA*

- Automated testing for smart shelf inventory system by replaying recorded user sessions using Python and Pytest, eliminated the need for real-time in-person testing
- Implemented a tracker program to collect and log sensor data from store hardware and transfer to telemetry system using C
- Built a server dashboard and alert system that monitors product availability in real time using React

Academic Tutor — **Apr 2020 — Mar 2021**
UCSD Computer Science and Engineering Department — *San Diego, CA*

- Tutor for CSE110: Software Engineering and CSE15L: Software Tools and Techniques Laboratory
- Held office hours to help students test and debug their project code as well as explain Linux and Git commands
- Created quizzes/exams and graded weekly homeworks and final projects developed by student teams

PROJECTS

Software Development Lead/ Habit Forming App — **Sep 2019 — Dec 2019**
CSE110: Software Engineering

- Led a group of 10 students to develop an iOS social media application that assists users to form habits through checking-in for consecutive days
- Designed a leaderboard system for users to share their habits and progress with friends
- Used React Native, MongoDB and Google Firebase Platform

Developer / Image Captioning with Attention and LSTMs — **Feb 2022 — Mar 2022**
CSE251B: Neural Network and Pattern Recognition

- Used the COCO 2015 Image Captioning Task Dataset for the experiments
- Designed an encoder-decoder architecture with ResNET and LSTM layers
- Implemented attention module at both image and text level
- Experimented with different model configurations and achieved a BLEU-1 score of 68%

Developer / Semantic Segmentation with CNN — **Feb 2022**
CSE251B: Neural Network and Pattern Recognition

- Designed a CNN architecture that performs semantic segmentation on TAS500 dataset
- Implemented the U-net architecture and transfer learning with ResNET using PyTorch
- Compared different architectures and achieved best pixel accuracy of 95%

Front-end Developer / Sizer — **Apr 2019**
LA Hacks

- Developed an iOS application that precisely calculate a person's body measurements (chest, waist, hip and leg length) from pictures using CNN
- Used Swift, Pytorch and AWS S3 platform
- Collaborated with a group of students as front-end developer

Developer/ FlyerFighter — **Sep 2019 — Jan 2020**
UCSD

- Developed an iOS application that allows users to post events as well as signing up for events
- Used Swift and Google Firebase Platform
- Collaborated with a group of students as part of a student organization project