

# Xinyi(Valentina) Tang

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## EDUCATION

**University of California, Santa Cruz**

**Santa Cruz, California**

*Bachelor of Science in Computer Science*

Expected Jun 2022

- **GPA:** 3.4/ 4.0; **Honors:** NSCS, Headmaster's Honor List, Undergraduate Dean's Award
- **Relevant Coursework:** Machine Learning, Web applications using Vue.js, Computer architecture, Computer Graphics, Data structure & algorithms, Computer Software and hardware, Computational models, Principles of Computer System Design, Comparative Programming Languages, Database
- Programming Languages: Python, Javascript, C/C++, Java, GLSL

## Work Experience

**University of California, Santa Cruz**

**Santa Cruz, California**

*Tutor, CSE160, Computer Graphics*

Sep 2021 – Present

- Assisting students in understanding course concepts; developing study strategies and method for independent work, writing and critical thinking skills
  - Conducted weekly meeting to discuss the course
  - Grading homework, quizzes, and programming assignments
  - Hold office hours twice a week to help students with debugging in Javascript and WebGL

## Projects

### Image Classification

- Use images of 10 different animals and train a model using tensorflow to classify them correctly
- Process, rescale, and normalize a subsample of a set of animal images
- Classify the animal in each image by building a convolutional neural network
- Using Xception as model and add layers

### TMDB Mobile App

- Use flutter as framework
- Wrote API Wrapper for connecting local realm and online firebase
- Allows users to browse, search, and select different movies and TV shows

### Second-Hand Trading Website

- A trading platform that allows UCSC students to sell and buy second-hand items
- Use document base as database and Vue.js as frontend
- Use Py4web as web framework
- Wrote APIs for connecting local realm and online firebase
- Implement the log-in feature with google sign in and school email sign in

## **Skills**

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### **Languages**

- English-fluent
- Chinese-fluent
- Japanese-basic knowledge