

# Thomas Huang

Software Engineer

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

September 2019 - Present | Westwood, California

MAJOR IN MATHEMATICS, PRE-MINOR IN STATISTICS, PRE-SPECIALIZATION IN COMPUTING

School of Letters & Sciences

Cum. GPA: 3.873 / 4.0

## PROJECTS

### MINI ROGUE | C++

2020

- Mini Rogue is an object-oriented, multi-level dungeon adventure game playable on the command prompt or terminal.
- Developed dungeon levels, monsters, combat, items, and abilities the user can utilize to eventually acquire the golden idol to win the game.

### RECIPE APP | PYTHON

2021

- Recipe App is an interactive application geared towards helping the home cook find recipes catering to their pantry or cravings.
- Scraped the database of recipes from [www.SeriousEats.com](https://www.SeriousEats.com) with **Scrapy**, where the user's queries are fulfilled with **SQLite3**
- Designed and created user and display interface with **PyQt5**

### INSTRUCTIONAL BLOG POSTS | PYTHON/JEKYLL

2021

- The instructional blog posts are various markdown blog posts giving a mini-lesson of how to do various tasks in the Data Science field.
- Topics discussed include: data scraping, manipulation, retrieval, and visualization, databases, clustering, and machine learning with the following: **matplotlib**, **NumPy**, **pandas**, **plotly**, **seaborn**, **SQLite3**, **Tensorflow**

## WORK EXPERIENCE

### UCLA MATHEMATICS DEPARTMENT | UNDERGRADUATE READER

March 2021 - December 2021 | Remote

- Graded various assignments for lower-division mathematics courses (Differential Equations, Differential and Integral Calculus, Pre-Calculus) under the guidance and direction of faculty.
- Selected based on past performances in coursework and prior grading

## SKILLS

### PROGRAMMING

Proficient:

Python • C++

Familiar:

R • Java • HTML/CSS

## COURSEWORK

Algorithms and Complexity  
Data Structures  
Mathematical Modelling  
Discrete Math  
Linear Algebra

## LANGUAGES

### ENGLISH

FLUENT

### SPANISH

INTERMEDIATE

## HOBBIES

Cooking/Food • Fashion •  
Video Games • Learning