

# Jason Ting

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## EDUCATION

### UC SANTA CRUZ

MASTER'S OF SCIENCE: COMPUTER  
ENGINEERING

Expected graduation:

December 2019 | Santa Cruz, CA

BACHELOR'S OF SCIENCE IN COMPUTER  
ENGINEERING

Graduated:

June 2018 | Santa Cruz, CA

GPA: 3.4

## COMPUTER SKILLS

### PROGRAMMING

- Python • Java • Assembly
- C • Verilog
- HTML • CSS • JavaScript

### TOOLS AND IDE

- Eclipse • MPLAB X
- VMs • ISE Design Suite
- GIT • Unix • Vivado
- Oscilloscope
- MATLAB

## COURSEWORK

- AI (current • Operating Systems
- Logic Design With Verilog
- Logic Design
- Electronic Circuit
- Abstract Data and Algorithm
- Computer Network
- Data Structure
- Game AI
- Microprocessor Design

## LANGUAGES

English (Native)

Mandarin (Fluent)

## EXTRACURRICULAR

- Society of Asian Scientist and Engineers
- Chinese Student Association
- National Level USA Badminton Umpire

## PROJECTS

### PUBG FINISH PLACEMENT PREDICTION | CURRENT

- Given a dataset, predict the player's finishing placement
- Compare data with win rate percentage to find useful data

### SMART PARKING SYSTEM | JUNE 2018

- Achieved goal of making a smart parking system that allow users to find availability of parking spots via mobile application
- Incorporated TCP/IP and REST API to send information from microcontroller to the cloud
- Used OV7670 with microcontroller to capture car image

### AMAZON PRODUCT RECOMMENDATION | MARCH 2018

- Incorporated collaborative filtering to recommend users product
- Implemented cosine similarity to find similar users and K-nearest neighbors for computation

### SMASH BRO MELEE BOT | JANUARY 2018

- Created an AI training bot that helps player practice their chain grabs
- Implemented using behavior tree and genetic algorithm

### ULTIMATE TIC TAC TOE BOT | OCTOBER 2017

- Successfully created an AI bot that will play Ultimate Tic Tac Toe
- Applied Monte Carlo Tree Search to determine the next move
- Included heuristics to help the AI decide the next move

## WORK EXPERIENCE

### LAB INSTRUCTOR | LOGIC DESIGN

January 2018 - March 2018 | Santa Cruz, CA

- Teaching a class of 20 students learning logic design
- Subjects taught include state machine, sequential circuits, system level design

### READER | LOGIC DESIGN

September 2017 - January 2018 | Santa Cruz, CA

- Graded student's homework and tests
- Kept in close communication with professor on any grading issues

### MSI LEARNING ASSISTANT | LOGIC DESIGN TUTOR

January 2017 - June 2017 | Santa Cruz, CA

- Facilitate interactive group learning sessions for up to 12 students at a time
- Help the students work together to understand the class material
- Create a collaborative learning environment
- Taught students how to create a state machine and solve sequential circuit problems

### INDIVIDUAL TUTOR | ABSTRACT DATA AND ALGORITHM

January 2017 - March 2017 | Santa Cruz, CA

- Create lesson plan to help student further understand the concept
- Keep tutee engaged during tutor hour
- Taught sorting / searching techniques and basic graph algorithm