

CATHERINE KUNG



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<https://ckung14.github.io/Personal-Website/>

Education

University of California, Irvine

June 2020

B.S. Computer Science, Informatics Minor, Campuswide Honors Program

- Data Management, Information Retrieval, Data Structure Implementation and Analysis, Computer Organization, Principles in System Design, Software Engineering • GPA: 3.938

Experience

California Institute for Telecommunications and Information Technology (Calit2), UC Irvine Division

Research Assistant

January 2018 - Present

- Developed, in collaboration with team members, an interactive Chromecast application that utilizes motion tracking to assist users in monitoring their workout progress and to provide feedback for improvements on form and speed of performed exercise
- Improved upon the user interface of the application by researching the efficacy of sound, color and animations in stimulating feelings of encouragement and determination in users and implemented new features utilizing HTML, CSS, and JavaScript

TechSmart Academy

June 2017 - August 2017

Instructor

- Taught children ages nine to fourteen the fundamentals of Python and Java, primarily covering data types, simple data structures, conditional statements and looping methods
- Integrated a curriculum utilizing the popular video game, Minecraft, specifically introducing students to the aforementioned concepts by implementing modifications to preexisting functions and characters of the game

Projects

Personal Website

July 2018

HTML, CSS, JavaScript

- Developed a personal website currently hosted on Github

Othello: Course Project

March 2018

Python, Tkinter

- Created a game mimicking the board game, Othello, in which users are able to specify the number of rows and columns on the board, the first player, how the game is won (with less or more pieces) and the location of the starting pieces
- Implemented an AI utilizing a recursive Minmax algorithm to determine optimal moves

Campus Involvements

Campuswide Honors Program Peer Mentor Program at UCI

May 2017 - June 2018

Mentor

- Collaborated with other mentors in creating a secure environment for incoming undergraduate students by answering questions related to student life and guiding students to on-campus resources
- Specifically mentored students with an interest in computer science or related fields of study

Women in Computer Science (WICS)

September 2016 - Present

Member

- Participated in technical workshops and locally contributed to the movement of empowering young women to pursue STEM through school visits and organization events

Skills

Python, Java, C + +, C, HTML, CSS, JavaScript, SQL