RICHARD HO

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GitHub: github.com/richardho200

Education

UC Santa Cruz | Computer Science M.S. Capstone Option | Expected Graduation: June 2024

C.S.U. San Marcos | Graduation: May 2022 | Computer Science B.S. & Mathematics Minor | GPA: 3.81 | Magna Cum Laude

Coursework:

CSU San Marcos: Data Structures and Algorithms, Programming Languages, Computer Architecture, Linear Algebra, Optimization, Discrete Mathematics, Intro to Deep Learning, Numeric Analysis, Intro to Artificial intelligence, Software Engineering

UCSC: Machine Learning, Artificial Intelligence, Analysis of Algorithms, Programming Languages, Advanced Topics of Machine Learning, Topics in Crowdsourcing and Collaboration

Scholarships and Honors

CSUSM Dean's List: Fall 2018- Spring 2022

Research Project

Reducing decision tree divergence for improved classification fairness(github)- Advised by Dr. Luca De Alfaro Fall 2023 (Oct 2023-Dec 2023)

Using Python to develop algorithms for improved classification fairness. Conducted literature reviews on analysis of past research works on decision tree divergence issues. Implemented a decision tree algorithm on predicting recidivity to improve classification fairness, reduce false positive divergence, and false positive prediction task accuracy. Wrote a final research report about my findings.

Project

Finding a Safe Area(devpost)**-** *New Hacks Who's This? Hackathon*

- This app was designed to create a safe and up to date information bank that users can access to make better-informed decisions about where they would like to go visit or hang out with each other in safe/no crowded spaces.
- Utilized HTML for creating a website and allowing the utilization of a chatbot in the front-end development.

Experience

UCSC Teaching Assistant- 10/2022- present: Grades students' assignments from programming assignments, quizzes, exams, and final exams. Creating Discussion sections related to the covered contents from lecture to prepare students for performing well on their programming assignments, quizzes, labs, and the final examination. Organizes 2 discussion sections weekly and weekly office hour to assist students on concepts along with assisting students on their homework, lab, and understanding concepts from lectures. Manages the gradebook and communicates with supervisor on ensuring priorities being met. Proctored students to enforce academic honesty and answer general questions on their exam during exam day and final examination's day.

Courses: CSE 20(Beginning Programming in Python) Fall 2022 Quarter, CSE 12(Assembly Language and Digital Circuits) Winter 2023 Quarter, FILM 20A (Intro to Film Studies) Fall 2023 Quarter, Physics 5 (Intro to Physics 1) Winter 2024 Quarter

Technical Skills

Programming Languages: Python, C++, HTML, and CSS

Tools & Programs: MS Visual Studio & GitHub