Herson A. Mercado Cruz

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EDUCATION

The University of Houston,   Expected Graduation Date: May 2024

Bachelor of Computer Science, Major

- Cumulative GPA 3.98
- Honors: Dean's List (Fall 2020, Spring 2021, Fall 2021, Spring 2022, and Fall 2022)
- Relevant Coursework: Data Structures and Programming, Introduction to Operating Systems, Data Structures and Algorithms, Introduction to Automata and Computers, Database System

WORK EXPERIENCE

University of Houston, Houston, TX   August 2022 - Present

Academic Work Assistant

- Assisting the course instructor in grading and proctoring exams.
- Hosting office hours to assist students in a one-to-one environment.
- Helping student's setup class related software and troubleshoot any problems.

PROJECTS

Wordle Clone

Academic Project

- Collaborating with a partner to develop a Python-based Wordle clone game using Pytest
- Utilizing SVN as the source control system and Jenkins for continuous integration.
- Implementing Test Driven Development principles to ensure high quality code and game functionality.

Discord Bot:

- Created a Discord Bot using Python, Discord.Py, FFmpeg, and YouTube-dl.
- Implemented queue, pause, resume, and stop audio functions using YouTube links as the source.

Dunya Flight Searcher

CodeRED Odyssey Hackaton

- Collectively worked on a web application, using Next.JS, TypeScript and Tailwind, to help individualize flight searches.
- Assisted in designing the initial look of the web application.

Multithreaded Fixed-Length Code Decompressor

Academic Project

- Using POSIX threads and mutex semaphores, implemented a multithreaded fixed-length code decompressor.
- Converted decimal values into binary to decode a binary message.
- Written in C++ on Ubuntu

LEADERSHIP & COMMUNITY INVOLVEMENT

CougarCS Tutor   August 2021 - Present

- Instructed and provided tips to students for their courses and to improve their skills.
- Clarified code that students were confused about and guided them in the right direction.

SKILLS

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

Tools: Git, VSCode, Microsoft Office