Justin Hancock

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EDUCATION

Texas State University   May 2022
Bachelor of Science in Computer Science   San Marcos, TX
Minor in Applied Mathematics
GPA: 3.58 / 4.00
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Software Engineering, Parallel Programming, Fundamentals of Algorithm Design and Analysis, Intro to Databases

Austin Community College   May 2017
Physical Therapist Assistant Associate of Applied Science   Austin, TX

SOFTWARE PROJECTS

Reddit Bot: Optical Character Recognition   June 2022
- Designed and implemented a Python Reddit bot utilizing a Reddit API wrapper, a wrapper for Google's Tesseract-OCR Engine, and the OpenCV computer vision library.
- Implemented to provide a user any text that is located within the posted image when it is called.
- Employed image preprocessing strategies using OpenCV library to improve word recognition accuracy.
- Optional functionality of being utilized as a Reddit image scraper.

Parallel Programming: Model Analysis   Nov 2021
- Developed algorithms in C++ and benchmarked across various Application Programming Interfaces including OpenMP, CUDA, POSIX, and MPI to compare respective advantages or disadvantages.
- Performed large multiprocessor computations on Frontera, a petascale supercomputer system.
- Implemented algorithms, such as the Collatz conjecture, to test seemingly random sequences.
- Measured and interpreted performance metrics to determine efficiency of differing APIs.

WebSocket-Pong: Online Multiplayer Game   September 2022
- Deployed an online multiplayer pong game, making use of the WebSocket API and Socket.io library.
- Coded with JavaScript, CSS, and HTML to implement a client-side website, and node.js for server side.
- Provides real time communication between browsers to enable users to play a classic game of pong.
- Possible to play against an AI opponent, as well as mobile functionality.

EXPERIENCE

Licensed Physical Therapist Assistant   July 2017 – 2021
- Worked in several professional settings including hospitals, outpatient clinics, and nursing facilities.
- Maintained 90% efficiency standard in terms of treatment time and total hours worked.
- Coordinated with large teams to give patients quality care based on changing performance indicators.
- Conducted meetings with patients and other healthcare professionals to guarantee efficient communication and coordination.

TECHNICAL SKILLS

Languages: Experienced in C++, Python. Familiar with JavaScript, CSS, Sass, HTML5, SQL.
Other Frameworks & Technologies: Git, Linux, React, Node.js, MySQL, Microsoft SQL server, Express.

HONORS & DISTINCTIONS

Dean's List (2019-2022): Awarded to students with a 3.5 GPA or above in each semester.