

# Justin Hancock

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**Portfolio:** <https://justinhdev.github.io>

**GitHub:** <https://github.com/justinhdev>

**LinkedIn:** <https://www.linkedin.com/in/justin-lee-hancock>

Austin, TX 78747

## EDUCATION

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### Texas State University

Bachelor of Science in Computer Science

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

May 2022

San Marcos, TX

### Austin Community College

Physical Therapist Assistant Associate of Applied Science

May 2017

Austin, TX

## SOFTWARE PROJECTS

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### 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

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### 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

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**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

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