COLBY HASKELL

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EDUCATION

University of Southern California – Los Angeles, CA

Expected Fall 2022

B.S. Computer Engineering and Computer Science (Embedded Systems)

- Honors: Presidential Scholar; GPA: 3.712
- Involvement: McCarthy Honors College, USC Developer Student Club, Trojan Venture Partners

EXPERIENCE

BetterBrews 2021- Present

App Creator

- Created coffee tracking app that guides users through the coffee brewing process and tracks variables such as water temperature, grind size, and brew time.
- Developed using SwiftUI and UIKit, and Core Data and FileManager (JSON files) for data persistence.
- Released on the Apple App Store in October 2021.

USC Dynamic Robotics and Control Laboratory, - Los Angeles, CA

2020 - 2021

Undergraduate Research Assistant

- Implemented a GUI for the control software written with Qt, C++, and ROS for the quadruped robots used in the lab
- Created simulation environments to test SLAM algorithm, image-detection, and obstacle avoidance for robots used in last-mile meal delivery project
- Hosted weekly team meetings via zoom and presented PowerPoints to share progress.

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, C, MATLAB, Swift, Java
- Web Development: HTML, CSS, JavaScript, jQuery
- **IOS Development:** SwiftUI, UIKit, CloudKit, Objective-C
- **Networking:** MQTT, Flask, REST APIs
- Other Skills: ROS, Verilog, CMake, Docker, Git, Photoshop, Excel

COURSEWORK

- EE301: Linear Systems
- EE250: Distributed Systems for the Internet of Things
- EE457: Computer Systems Organization
- EE364: Probability and Statistics for Electrical Engineering and Computer Science

RECENT PROJECTS

CSCI 104 Visualizer

- Web App created in JavaScript to visualize concepts taught in CSI 104: Data Structures and Object-Oriented Design.
- Currently Supports Visualization of pathfinding algorithms (Dijkstra's, A* Search, BFS, and DFS)

Qt Chess

- Basic GUI chess game created with Qt C++
- Supports play as black or white, dragging and dropping of pieces, and features simple CPU opponent