ERIN WOO

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EDUCATION

University of California, Santa Barbara

Computing B.S., College of Creative Studies

Organizations: SB Hacks V Organizing Team (Sponsorship Coordinator), Alpha Sigma Kappa – Women in Technical Studies

(Webmaster/Photographer), Theta Tau Professional Engineering Fraternity - Sigma Epsilon Chapter (Vice Regent) Scholarships/Fellowships: Grace Hopper 2018 UCSB CS Departmental Scholarship, Rewriting the Code Fellow

WORK AND EXPERIENCE

Software Engineer Intern – Teams Mobile Microsoft - Redmond, WA

June 2020 – September 2020

Implementing the revamped layout of notification settings within the Teams Android app.

Software Engineer Intern - UCSB

Enterprise Technology Services (Software Engineering Architecture & Lifecycle)

August 2019 - Present

- · Developing and refining high-visibility UI features in Javascript & Aurelia.
- Optimizing search features by reducing latency between server and UI clients.

Undergraduate Computer Science Tutor - CMPSC 24 UC Santa Barbara

September 2019 - Present

Tutor for Problem Solving with Computers II. Leading lab office hours and offering one-on-one assistance in programming assignments and course material in C++.

Software Engineer Intern

WeWork HQ - San Francisco, CA June - August 2019

- Core Platform DeviceKit Team -Architected RESTful APIs and middleware with Golang, Gin, and Elasticsearch for data visualization of access card usage across WeWork buildings.
- Actualized a POC device heatmapping tool in Mapbox JS that enabled product managers to visualize the utilization of WeSecure devices.

EUREKA! Scholars Research Intern

RE-Touch Lab - UCSB Media Arts & Technology

May - September 2018

Researched and developed applications for dynamic finger-worn haptics in virtual reality systems using Unity3D/C# in Oculus Rift using Leap Motion and MaxMSP (Tactile Echoes).

Undergraduate Research Assistant

Santa Barbara, CA

Exp. grad: June 2021

UCSB Gevirtz Graduate School of Education November 2017 - March 2018

 Co-developed the back-end infrastructure of a Scratch-based virtual reality game in Unity3D/C# for HTC Vive that teaches young children how to code (Blockbased VR).

Girls Who Code Summer Immersion <u>Program</u> Twitter – San Francisco, CA

June - August 2016

• Introduction to programming fundamentals and data structures using Python, Javascript, and C++.

• Final project culminated in a web-based Javascript platform game ("The Human Race") that explored the effects of racial privilege in everyday life.

PROJECTS

P2P Money Exchange Application with Private Blockchain: - CS 171 – Distributed Systems C/C++

Spring 2020

Developed a peer-to-peer money exchange application on top of a private blockchain for fault-tolerant transactions within a decentralized system. Implemented Paxos, a consensus protocol, to ensure consistent replication across transactions and tolerance of crash failures.

KOS: - CS 170: Operating Systems

Fall 2019

C, DEC MIPS R3000 Simulator

Built an operating system for MIPS-simulated hardware that implemented interrupt/error handling, fork/exec/wait system calls, and multiprocess memory management.

Bow & Arrow Haptic Simulation: - ECE 194T: Haptics: Perception, Engineering & Interaction

Winter 2019

C++/CHAI3D/Novint Falcon/Blender/OpenGL

- Engineered a force-feedback simulation of a bow and arrow with haptic and visual stimuli on the Novint Falcon haptic system.
- Modeled the physics of the bow string tension force and the corresponding graphical display using the CHAI3D haptic library with OpenGL.

Tactile Echoes (Simon VR) - RE-Touch Lab - UCSB Media Arts & Technology Dept.

May - September 2018

Unity3D/C#/Oculus Rift

Built the backend functionality of the VR engine that bridged the communication between hand tracking and the haptics engine in Unity3D (C#) for Oculus Rift. Implemented the handheld memory-based game, Simon, in virtual reality with haptic and auditory feedback.

TECHNICAL TOOLS

Programming Languages (from most to least experienced): C++/C, Javascript/Typescript, HTML/CSS, C#, Golang, Java, Python, Assembly (MIPS) Tools/Skills: Emacs, UNIX shell, GDB, Valgrind, CHAI3D, IoT, Elasticsearch, Android Studio, RESTful API design, Postman, Xcode, Unity3D, Git/Github, test driven development (TDD)/unit testing, Node.js, socket programming, operating systems, distributed systems design, blockchain protocols, Firebase