DOROTHY CHOU

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EDUCATION

University of California, San Diego La Jolla, CA
B.S. Major in Mathematics - Computer Science, Minor in Interaction Design Sept 2019 - Expected Jun 2023
- GPA: 3.9/4.0

EXPERIENCE

Software Development Engineer Intern Seattle, WA
Amazon Jun 2022 - Sept 2022
- Developed an application using Python scripts on the Fleet Edge camera system installed in Amazon Delivery Vans to collect diagnostic data during the installation and troubleshooting processes
- Utilized Generic Attribute Profile as a communication protocol to transfer data over a Bluetooth Low Energy connection from the Fleet Edge device to an iOS device
- Created an iOS application written in Swift, using SwiftUI, and developed on Xcode that displays data retrieved from the Bluetooth Low Energy connection

Code Coach Cupertino, CA
theCoderSchool Jun 2021 - Oct 2021
- Tutored grade school students in multiple programming languages
- Guided students in creating projects using different coding platforms using Scratch and Python
- Planned weekly curriculum specifically tailored for each student depending on their proficiency to help them grasp new programming concepts

Assistant Consultant Virtual
iRenix Medical, Inc. May 2020 - Nov 2020
- Produced randomization data assigning treatments to 500+ participates of a clinical trial using R
- Prepared and sent randomization results to five clinics for testing
- Generated treatment assignments with RStudio and stored the data in Microsoft Excel

PROJECTS

Everglow App Virtual
Front-end Software Developer Jan 2021 - Mar 2021
- Developed a web application written in Javascript and deployed through Firebase to display the battery level and charging status of a solar-powered lamp
- Conducted user research before and during the design process and iterated through 30+ mock-up screens on Figma with new designs motivated by user feedback
- Implemented the final drafts of the screens using React for the user interface

SD Hacks Virtual
Team Developer for Training Arc Feb 2021
- Won Wolfram Alpha Prize for innovative implementation of the Wolfram Alpha API
- Developed a web application to assist students in solving math word problems and assess their proficiency in selected topics through a diagnostic exam
- Utilized Wolfram Alpha API to provide a step-by-step solution to problems entered by the user and ReactJS, NodeJS, and Python to create the user interface

Pocket Fridge Virtual
Full Stack Developer Oct 2020 - Jan 2021
- Won Best Overall App for Women in Computing @ UCSD's Fall 2020 Development Program
- Developed a web application that helps users track information about grocery items in their refrigerator and the amount of food they wasted
- Designed sample screens on Figma, created the user interface on React Native, leveraged Expo to launch the web simulator and AWS Amplify and GraphQL for the database

ADDITIONAL SKILLS

Computer Languages: C++, Java, Python, HTML, CSS, Swift, R, MATLAB, Latex
OS, Frameworks, and Tools: Unix/Linux, Git, Figma, React, VS Code, Xcode, Microsoft Excel
Languages: English, Chinese (Mandarin)