

Miles Spencer Wu

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EDUCATION

UNIVERSITY OF CALIFORNIA: LOS ANGELES | GPA: 3.86

June 2022

- Bachelor of Science, Computer Science
- **Dean's Honor List:** Fall 2018, Winter 2019, Spring 2019, Spring 2020
- Relevant Coursework: Algorithm Design & Complexity, Data Structures & Algorithms, Programming Languages, Operating Systems, Compiler Construction, Software Construction Lab

PROJECTS

STORY SEEKER, Amazon Alexa Skills Challenge

Oct 2019 - Mar 2020

- Spearheaded an end-to-end product centering around an Alexa Skill which allows users to purchase and interact with choose your own adventure stories, which are written, published, and approved on a complementary web platform.
- Used **React & Redux** to implement the front-end architecture for a web platform where authors can write and maintain their stories using an interactive graph-based user interface consisting of nodes and branches.
- Handled **data serialization** of author-built stories, translating graph structure into JSON format that could be received by a Python Flask server and then further processed into a decision tree for the Alexa Skill.
- Awarded **"Best in Show"** out of 20 projects at UCLA ACM's Annual Tech Gala.

MYCHECKPOINT, SB Hacks

Jan 2020

- Created a cross platform app for web/Android that suggests items to bring to scheduled events based on calendar data.
- Cultivated expertise with setting up Android application infrastructure and integration of **Firebase** services.
- Manipulated JSON from the **Google Calendar API** using Kotlin to retrieve, store, and display user event data.
- Oversaw development of the web application and taught team members fundamental React concepts to kickstart the implementation of the front-end design and data flow.

WATER WARS, LA Hacks

Mar 2019

- Built a web app with React to gamify and promote water conservation in the LA Area.
- Utilized the **Google Maps' Geocoding API** to add a place autocomplete search feature and respond to user location search requests by displaying a map with the water usage of buildings in the specified area.
- Developed an understanding of using web APIs, retrieving and **displaying back-end data** via HTTP requests, and handling website navigation with React Router.

EXPERIENCE

RISE, Co-founder & Internal Director

May 2020 - Sep 2020

- Organized an international community of 65 students and 70 industry mentors to provide an opportunity for students affected by the loss of summer jobs from COVID to receive support and structure similar to an internship experience.
- Recruited product managers, designers, and developers from **450+ student applicants** to work in cross-functional teams to ideate, design, and develop original products.
- Directed teams' focus towards a structured sprint-based Agile workflow with an emphasis on user feedback based feature prioritization, resulting in all 7 teams **successfully launching** their MVPs in just 9 weeks.

UCLA ACM HACK, Hackschool Director

Nov 2019 - Present

- Taught workshops and **structured curriculum** for quarter long web and mobile app development educational programs with average turnout of 70+ participants per week and 200+ views per session; the highest of any ACM committee.
- Collaborated with a team of developers and ACM's internal design team by holding weekly stand-ups to design and implement the landing page for Hack's annual beginner-friendly hackathon using React & Gatsby.
- Utilized Netlify's **continuous deployment** and Github actions for **continuous integration** with ESLint to streamline software workflow and iteration.

SOCIETY OF WOMEN ENGINEERS, FullStack Developer

Nov 2019 - Present

- Building the Society of Women Engineers Event Portal in preparation for SWE's largest annual event, Evening with Industry, based on the Board members' specifications.
- Handling user registration: creating signup pages with **React** and working with endpoints on a **Node Express** server.

SKILLS

Languages: Javascript ES6+, C/C++, Python, Java, Kotlin, HTML5, CSS3, Bash

Frameworks/Tools: React, Node, Firebase, Redux, SQL, React Native, Android Studio, CI/CD, Git/Github, Material UI