

Miles Spencer Wu

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EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) | GPA: 3.77

Sep 2018 - June 2022

- Henry Samueli School of Engineering: Bachelor of Science, Computer Science
- **Relevant Coursework:** Software Engineering, Data Structures & Algorithms, Computer Networking, Database Systems, Data Science, Artificial Intelligence, Programming Languages, Operating Systems

SKILLS

- **Technical:** Javascript ES6+, Java, C/C++, Python, React, Node, SQL, Google Cloud Platform, CI/CD, Git/Github
- **Leadership:** Design Thinking, Agile, Communication, Cross-Functional Teams, Quality Assurance, Requirements Analysis, Knowledge Base Documentation, Collaborative Problem Solving, Interpersonal Relationship Management
- **Industry:** Software Development Lifecycle, Software as a Service, Increasing Customer Satisfaction, Process Automation

EXPERIENCE

RISE, Co-founder & Internal Director

May 2020 - Sep 2020

- Organized a student entrepreneurship program by recruiting 65 product managers, designers, and developers out of 450+ applications to form a community of cross-functional teams, create [original products](#), and pitch them to venture capitalists, resulting in **4 out of 7 receiving funding** and continuing development.
- Mentored developers by preparing documentation/workshops on **GitHub, React, Node, Flutter, REST APIs, Netlify, Firebase**, and general workflows, empowering those with no experience to kickstart their product development process.
- Played a key role in the program's **strategy and execution**: created a master timeline for internal deadlines and milestones, integrated industry mentorship to maximize value for participants, and **assigned weekly actionables** to the leadership team.

UCLA ACM HACK, Curriculum Director, Operations Director, Dev Team Lead

Nov 2019 - Present

- Taught workshops and structured curriculum for web/mobile app development programs, covering frameworks like React along with tools like Github and Firebase, with average turnout of **70+ participants per week** and **200+ views per session**.
- Created and **deployed a verification bot** for a virtual event Discord server on GCP using Node and SQLite to automate participants checking in and being granted appropriate access permissions.
- Strategized, discussed, and executed plans with directors for Hack Kitchen, an annual coding challenge event, in order to optimize participants' experience, resulting in **96% positive feedback from 30 participants**.

SOCIETY OF WOMEN ENGINEERS, FullStack Developer

Nov 2019 - Jun 2021

- Built the Society of Women Engineers Event Portal for their largest annual event, Evening with Industry, using React and Material-UI to create registration pages and Node Express to send registration information to a PostgreSQL database.

PROJECTS

CLARINET BUS BUDDIES, UCLA Marching Band

Sep 2021

- Developed a Node script to **automate** the matching of 32 members to each other for weekly gift exchange, maintaining a match history to prevent repeats and taking personal info from Google Sheets to send assignments via **SendGrid** and **Twilio**.

WEB SERVER CAPSTONE, COM SCI 130

Mar 2021 - Jun 2021

- Implemented a C++ web server using gtest for unit testing, along with **Docker and GCP** for continuous deployment.
- Worked with a team to **define weekly requirements** and milestones, running standups, writing design docs, maintaining documentation, and using Git with Gerrit to **facilitate code review**.
- Designed a robust method to create request handlers using a **Registry design pattern**, enabling easy codebase extension.

CINEMA SWIPE, LA Hacks

Mar 2021

- Created a **React Native app** with **TypeScript** to address the painful process of finding a movie to watch with a group where friends use a Tinder-like UI to swipe on suggested movies from their favorite streaming platforms until a match is found.
- Developed an understanding of **WebSockets** to allow for real-time communication between client and server, enabling users' past actions to inform future movie recommendations, converging groups towards a common movie.

STORY SEEKER, Alexa Skills Challenge

Oct 2019 - Mar 2020

- Built an **end-to-end product** centered around an Alexa Skill that allows users to purchase and interact with choose your own adventure stories, which are written, published, and approved on a web platform created with **React & Redux**.
- Designed and created the web platform for authors to write and maintain stories using an interactive decision tree interface.
- Handled data serialization of author-built stories, translating graph structure into a format compatible with Alexa.
- Won **"Best in Show"** out of 20 projects at UCLA ACM's Annual [Tech Gala](#).