Riley Chou

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EDUCATION

University of California, Santa Barbara (UCSB), Goleta, CA   Expected June 2025
Bachelor of Science in Computer Science
GPA: 3.8 / 4.0, 5 x College of Engineering Deans Honors List
- Relevant Coursework: Object Oriented Programming (C++), Discrete Math, Linear Algebra, Statistics, Data Structures & Algorithms, Computer Architecture, Computational Science, Automata and Formal Languages, Intro to AR/VR, Machine Learning.

EXPERIENCE

Web Development Engineering Intern   June 2023-Present
We Vote | Remote
- Develop 2000+ lines of React.js and JavaScript in the front-end to enhance web app performance and improve user experience.
- Curate political data entries with Django by filtering relevant data points in the server.
- Create software on an Agile/Scrum development team, tracking issues with Jira and perform version control with Git/Github.

IT Engineering Intern   June 2023-August 2023
Lanner Electronics Inc. | Fremont, CA
- Architected a web application with Django that features Model View Control and user authentication to process work orders.
- Processed data from SQLite database that is populated by the Django ModelForm class and display it on the frontend.
- Delivered progress updates with manager weekly to discuss features to implement and receive feedback.

Undergraduate Learning Assistant   September 2022-March 2023
Computer Science Dept. of UCSB | Goleta, CA
- Mentored 350+ students in introductory Python and Digital Logic Design courses.
- Scheduled weekly office hours to provide debugging sessions, homework help, and content clarification.
- Proctored weekly quizzes and graded assignments and projects with Gradescope software.

Director of Technology   November 2020-September 2021
Citro Tech | Remote
- Built and maintained Citro Tech's responsive website with HTML, CSS, and JavaScript alongside one other member.
- Gathered 830+ signups and raised over $3000 from 24 sponsors for Citro Hacks, an all-inclusive high school virtual hackathon.
- Co-hosted 18 Citro Hacks workshops and events over the course of a weekend.

PROJECTS

Blenders Simulator   May 2023
SB Hacks IV | Goleta, CA
- Created frontend based web app using React.js with a multi-step process to make a smoothie
- Animated the smoothie blending process with CSS and JavaScript to increase interactability.
- Invented a math-based system to determine which out of 5 flavors the smoothie is based on input ingredients.
- Designed a smoothie archive that saves the users' favorite smoothies to a local database to return to later.

U Cure Sadness Bot   January 2022
SB Hacks VIII | Goleta, CA
- Programmed the bot commands with Discord.py, and Heroku to host the Discord bot.
- Fetched JSON data from the Joke API, NASA API, and Dog API when users input certain keywords.
- Incorporated a to-do list written in Python that can be invoked with a simple command to help students organize daily tasks.
- Improved happiness levels of 7 college students that added the bot to their Discord server.

DAB (Droughts Are Bad)   January 2021
OrionHacks | Remote
- Inspired by California's worsening droughts and overwatered gardens in suburban households.
- Connected circuits and programmed in C++ for an Arduino system that measures soil moisture levels to prevent overwatering.
- Built an Android app with MIT App Inventor that receives soil data and remotely controls the sprinkler via Bluetooth.
- Received "Best Hardware Hack" award at OrionHacks among 52 submissions.

TECHNICAL SKILLS

Languages and Frameworks: C++, JavaScript, ReactJs, NextJs, NodeJs, Java, Python, NumPy, SciPy, Pandas, C#, Django
Developer Tools: Github, Git, VS Code, IntelliJ IDEA, LaTeX, Scrum & Agile, Linux & Unix, Unity Engine, PyCharm, Jira