

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

- Implement functions and performance improvements with React.js and JavaScript for digital voter guide to enhance user experience.
- Develop software on an Agile/Scrum development team, tracking issues with Jira and perform version control with Git/Github.
- Deliver progress updates at weekly standups and adapt to changing specifications of features.

IT Engineering Intern

June 2023-Present

Lanner Electronics Inc. / Fremont, CA

- Create a web application with Model View Control architecture using Django to process work orders for Lanner Electronics.
- Process data from SQLite database that is populated by the Django ModelForm class and display it on the frontend.
- Meet 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 using Gradescope

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 interactivity.
- Devised a math-based system to determine the flavor of the smoothie based on input ingredients.
- Developed 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.
- Wired 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, Ngrok