

# Brendan Benner

High-achieving aspiring software engineer with work experience. Eager to apply technical skills to take on new responsibilities and roles.

## EXPERIENCE

### Chisel HDL GUI Intern — *Intensivate*

December 2020 - December 2021

Used JavaScript and knowledge of systems programming and data structures to build a GUI webapp to greatly simplify the generation of Chisel code to interface with Berkeley's Rocket Chip; translate into new code base to design new commercial chip. Direct Supervisor: Dr. Sean Halle

### Web Engineer Intern — *The Rise Network*

May 2020 - August 2021

Utilized ReactJS, SQL, and HTML/CSS and worked with executives to integrate design elements into front and back-end web development plans in a collaborative environment, including a location API for recommending local businesses to users. Direct Supervisor: Roz Shepard

### Information Devices and Systems Tutor — *EECS 16B (UC Berkeley)*

January 2021 - December 2021

Taught circuitry and linear algebra concepts to students taking Berkeley's most-taken EE/CS upper-division course; aided students with conceptual difficulties in class and office hours for six hours per week. Direct Supervisor: Professor Anant Sahai

## EDUCATION

### University of California, Berkeley — *Bachelor of Arts in Computer Science & Mathematics Minor*

August 2019 - May 2023

Cumulative GPA: 3.851

Courses: Operating Systems and Systems Programming, Machine Structures, Discrete Mathematics and Probability Theory, Data Structures, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems I & II, Calculus  
Roles:

- **Computer Science Undergraduate Association Vice President** - Communicate with companies and manage corporate relations through career fairs and tech talks for school's largest and oldest computer science organization
- **Global Startup Fair Organizer** - Manage communications with companies for UC Berkeley's largest fair for bringing students opportunities at startup companies
- **Data/Machine Structures Academic Intern** - Engage with students in these courses through lab-based coursework as a part of course staff; prepare lab work for students and assist them in office hours

### Loyola High School, Los Angeles — *Diploma with Summa Cum Laude*

August 2015 - June 2019

Cumulative GPA: 3.987

Activities: Chinese Club (President), Chemistry Club (President), Academic Decathlon (Co-president), Band (French Horn), Piano, Writing Tutor

## Home Address:

11042 Fruitland Dr., Studio City, CA 91604

(818) 259-9942

[brendanrbenner@gmail.com](mailto:brendanrbenner@gmail.com)

<https://brendanbenner.ml/>

<https://github.com/bbenner7635/>

## SKILLS

Proficiency with front-end and back-end systems, and development in C, Java, Python, JavaScript, SQL, Scheme, HTML, and CSS

Experience with React, React Native, and Expo

Strong Bases in Computer Architecture & Mathematics

Leadership and Communication

## PROJECTS

### Java Text Summarizer

Utilized Java data structures and machine-learning concepts to build a sentence-scoring program that condenses information.

<https://github.com/bbenner7635/Text-Summarizer>

### React Data Visualization Web Apps

*EcoDataLab Front-end Team*

Used React.js to develop data visualization web apps for scaling up sustainability solutions with an on-campus team.

<https://ecodatalab2.web.app/>

### React Native Location API

*Ecode Development Team*

Built an Expo mobile app and API in React Native for tracking a user's location to reduce carbon footprint.

<https://github.com/bbenner7635/LocationAPI>

### Python Messenger Bot

Developed a Python chat bot for moderating and managing group chats on the messaging platform Discord using the Discord.py library.

<https://github.com/bbenner7635/Storm>

## AWARDS

Summa Cum Laude, Loyola High School, 2019

National AP Scholar, CollegeBoard, 2019

National Merit Scholarship  
Commended Student, National Merit Scholarship Corporation, 2018