

# Zachary Kirby

2400 Durant Ave. | Berkeley, CA. 94700  
(210)875-0895 | zkirby@berkeley.edu

<https://zkirby.github.io>

Education

## University of California, Berkeley

Berkeley, CA  
2016 - 2020

- Computer Science and Film, **GPA: 4.0**
- Course work: **Web Design**, Data Structures, **Machine Structures**, Information Devices and Systems, **Data Science**, Discrete Math, Linear Alg, Entrepreneurship Bootcamp.

## Personal Website

Online portfolio built in **Sass**, **Bootstrap**, and **jQuery**. Includes custom graphics and utilizes several plugins including particles.js and Isotope.js

## HelpMeSpell

A simple html **DOM parser** for dictionary words. The application was built in **Python** and supports definition lookup for every word in entire paragraphs. Also supports character by character search for select words stored in a **Sql database**. Utilizes **TKinter** for the user interface, lxml for parsing, and sqlite3 for the database.

## EduBox Education Application

An extensive **Python** application built over several months during my final semester of high school. Provides a wide array of support tools (derivative calculator, definition 'grabber', etc) for a variety of contemporary school subjects. The GUI was built in **GTK+3** and the application uses a plethora of libraries; notably: **Sympy**, Scipy, and matplotlib.

Projects

Proficient in Python, Java,  
JavaScript HTML/Sass

Ionic, git, Adobe Illustrator

Experience with Bootstrap,  
SQL, Express, MongoDB  
Adobe Photoshop,  
Adobe Experience Design

Familiar with React, Lisp, Latex  
Unity, Adobe Dreamweaver

Skills

## Regents and Chancellor's Scholarship Award Winner

The most prestigious scholarship offered by the University of California to entering undergraduates.

## California Alumni Leadership Scholarship Award Winner

Competitive merit based scholarship awarded for substantial leadership accomplishments.

Awards

## Kamusi

Front End Intern

Remote  
Summer 2017

- Overview: Worked with an **international team** to implement the Kamusi ([www.kamusigold.org](http://www.kamusigold.org)) **hybrid mobile application** 'EatUp!'. The team was Lead by EPFL researcher Dr. Martin Benjamin and provided enhanced menu translation
- UX/UI: Worked Extensively on MVP, conducted user research and worked to detail user persona/story. Worked on lo-fi prototype in Adobe Experience and helped draft early logo design.
- Technical: Constructed MVP in **Ionic2** (typescript/Angular2, Sass, HTML), worked on **backend** in Express and Mongodb, and helped intergrate user profiles and **i18n/i10n** support.

## Intuit

UX Research Extern

San Diego, CA  
Winter 2016

- Overview: Worked with a small team on the Intuit owned Mint application. Our objective involved conducting **user research** and constructing a lo-fi wireframe of an Mint application that was more appealing to college students
- UX: We utilized **D4D techniques** through extensive user interviews, Empathy Mapping, creating a Mood Board, broad to narrow prototyping, User Personas, User stories, and wire framing.

Experience

## CS98/198

Head Instructor

Berkeley, CA  
2016 - Current

- Involves grading, creating, and maintaining the curriculum and content taught through one of the most popular student taught class on campus (**120 students/ 800 apps**).
- Technical: requires a thorough mastery of both the programming (**jQuery**, **CSS/HTML**) and Design (UI/UX) concepts taught in the class. Requires practical front end abilities to maintain the course website: **wdd.io**

## Anova

Curriculum Chair

Berkeley, CA  
2016 - Current

- Lead a team of undergraduate students to **teach** computer science to underprivileged high school and middle school students.
- Lead the committee in charge of creating, maintaining, and organizing the **curriculum** taught by the organization as a whole.