

# Zhangyuan(Derrick) Xiong

Student and UGSI at UC Berkeley

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## EDUCATION

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### UNIVERSITY OF CALIFORNIA, BERKELEY

08/2016 – 05/2020

- GPA: 3.62
- B.A. in Computer Science and Applied Mathematics
- Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structure, Discrete Math, Designing Information Devices and Systems, Artificial Intelligence, CS Theory, Machine Structures

## LANGUAGES AND SKILLS

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- **Expert:** Git, Python, Java
- **Proficient:** C, SQL, HTML, CSS, JavaScript, RISC-V, Scheme

## PROFESSIONAL EXPERIENCE

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### Software Engineering/Data Analysis Intern

06/2018 – 08/2018

MindsDB

- Implemented a dataset for the neural network designed to speed up the choosing of hyperparameters in the MindsDB prediction model.
- Tested and improved the performance of the MindsDB model on a subset of Kaggle data competition problems.
- Managed the MindsDB website and fixed the issue with uploading datasets onto the server.
- Languages and technology: Extensive work in Python, SQL and JavaScript (Meteor)

### Undergraduate Student Instructor for CS61A

01/2018 – present

UC Berkeley

Undergraduate student instructor for CS61A (Structure and Interpretation of Computer Programs).

- Taught discussion and laboratory sections consisting of ~20-40 students with and without prior programming experience and held exam review sessions consisting of 50-200 students.
- Collaborated with a staff of undergraduate and graduate TAs to build projects, labs, discussions and exams for a 1400+ person course.
- Lead office hours, homework parties, project parties and one-on-one tutoring sessions, which help 400+ students on a weekly basis debug and analyze course projects.

## PROJECTS

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### Xpendibuddy (1<sup>st</sup> place of Hack Into It 2017): (<https://github.com/jettjz/XpendiBuddy>)

- Web-Based Interactive Alexa Skill designed to help teenagers form a healthy financial habit of saving by actively giving feedback and suggestions.
- Engineered analytic model for users' data and historical financial of people share similar age and income.
- Integrated an Alexa skill front end, Flask server backend and python panda's data analysis model.
- Technology used: Python Pandas, Numpy, Flask, JavaScript, Amazon Alexa.

### BEARMAPS: (<https://github.com/Berkeley-CS61B-Student/sp17-agp/tree/master/proj3>)

- Web-Based Interactive Map covering the entire region of UC Berkeley and the surrounding area.
- Integrated the ability of search bar autocomplete, shortest routing designing into the display of the mapped area.
- Technology used: Java, OSM XML, SAX parser etc.

## LEADERSHIP

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### Senior and Associate mentor for Computer Science Mentor (<https://csmberkeley.github.io/#/>) 08/2017 – present

- Lead meetings with junior mentors to share teaching guidelines and help less experienced mentors become better teachers.
- Held tutoring sessions consisting of less than 5 students in lower-division computer science courses.