

# Alice Ye Zhao

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<https://aliceyezhao.github.io/>



## Education

University of California, Berkeley

B.S. Electrical Engineering & Computer Science (EECS) with a Minor in Education

Aug. 2017 - May 2021

GPA 3.3

**Relevant Coursework:** Data Structures, Algorithms, Data Science, Intro Artificial Intelligence, Computer Architecture, Discrete Mathematics and Probability, Multivariable Calculus, Information Devices and Systems

**Honors and Programs:** HackNY Fellow, Goldman Sachs Engineering Essentials, CalHacks, TreeHacks, Impact Labs Fellow



## Experience

Datadog, New York

Software Engineering Intern | React, Typescript, Python, Go

New York City, NY

May 2019 – Aug. 2019

- Built a feature that imports and export dashboards as JSON files, allowing users to share dashboards outside of the app
- Pioneered a search component that navigates through all of an organization's dashboards in the side bar without latency
- Iterated with multiple rounds of user feedback, working closely with product and design to develop UI and user stories

Blueprint, Technology for Non-Profits

Project Leader, Software Developer | React, Ruby on Rails

Berkeley, CA

Sep. 2018 – Present

- Developing an intuitive full-stack web application for HomePointr CIC that streamlines the data exchange processes between up to 40,000 homeless individuals in Scotland and appropriate care services by storing, sorting and filtering form data
- Designing HomePointr's database schema while implementing model methods for user authentication and data serialization
- Built Rising Tide's core web app that matches communities with volunteers and maximizes compatibility between the two

Stanford University, Computer Science: Graphics Department

Student Researcher | Python, C

Stanford, CA

Jun. 2018 – Aug. 2018

- Designed a motion capture pipeline that uses OpenCV to detect markers on clothing in a 2D environment from multiple views
- Measured the Hausdorff Distance and Vertex Distance between clothing meshes by using scaling and centering techniques
- Reconstructed 3D body models from 2D images of poses with an open source end-to-end joint reconstruction method



## Projects

HomePointr <https://homepointr.herokuapp.com> | React, Ruby on Rails

- Housing platform that allows agencies to match homeless clients with vetted landlords for temporary and permanent lodging
- Landlords can upload properties with images and tags. Housing agencies can filter through properties to efficiently find matches

Rising Tides <https://github.com/calblueprint/rising-tides> | React, Ruby on Rails

- Connects skilled volunteers to communities being impacted by climate change using a customized dual portal web application
- Used Tachyons, a flexible CSS library, to build customized components. Collaborated with design for consistent branding

Seam Carver Code available upon request | Java

- Removes pixels that are the most similar in color to adjacent pixels, outputting a compressed version of the original image

BearMaps Code available upon request | Java

- Web application that rasterizes map images and renders the shortest distance between points using A\* (Dijkstra's) path-finding



## Skills

Programming Languages

JavaScript, Python, Java, C, Go, Ruby

Web Technologies/Frameworks

React, Typescript, Ruby on Rails, HTML/CSS

Design

Figma, Adobe Photoshop, Adobe Illustrator



## Interests

Volunteering

- Teach an SAT prep class for low-income high school students
- Provide free vaccinations for underprivileged cats and dogs

Hobbies

- Member of Alpha Kappa Psi, Business Fraternity
- Writer for a student fashion blog: <https://berkeleygarb.com>
- Used to work at a boba shop (Teaspoon)