

# BILL ZHANG

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## EDUCATION

### University of California, Santa Cruz

Bachelor of Science in Computer Science *GPA: 3.62*

Santa Cruz, CA

Sep 2020 - Expected Graduation Date: March 2023

## WORK EXPERIENCE

### X-Camp Academy

*Teaching Assistant*

San Jose, CA

July 2022 - Present

- Teaching important algorithms and data structures such as disjoint set union, prefix sums, binary search, and two pointer algorithms to multiple classes of 20-30 students
- Collaborating with the lead instructor to develop and implement engaging lesson plans and activities
- Assisting in grading assignments and exams, providing constructive feedback to help students improve
- Maintaining a positive and supportive learning environment, fostering collaboration and engagement among students
- Handled communication between faculty and parents to promote and maintain engagement between students and faculty

## SKILLS

Programming Languages: C, C++, Java, Python, Dart, Javascript, Typescript, Haskell  
Frameworks: React, NextJs, NodeJs, ExpressJS, Flask, Vite, Vue  
Libraries: Material UI, Tailwind CSS, Socket.io, Axios, React Testing Library  
Databases: Firebase, PostgreSQL  
Other: Agile, OPENApi, RESTful Api, Github, Cloud Computing, UX Design

## PROJECTS

### Slug Loop *React, Material UI, ExpressJS, C, Azure*

<https://www.slugloop.tech/>

Real-time loop bus tracker for UCSC, utilizing a mixture of hardware and software including Radio Transmitters, Raspberry PI's, and C Programming.

### Paddy Plant Prognosis *Tensorflow, Vite, Flask, TailwindCSS*

<https://www.paddyplantprognosis.tech/>

App that uses cutting-edge computer vision technology to help farmers quickly and accurately identify diseases in their paddy crops.

### Sink or Swim *NextJS, Flask, Tensorflow, TailwindCSS, Framer Motion*

<https://sinkorswim.vercel.app/>

Webapp that combines machine learning and storytelling to offer a unique and interactive experience, predicting the user's chances of survival on the Titanic and generating a personalized story about their experience on the ship.

### Pool Party *React, Express, Hop.io*

<https://mypoolparty.tech/>

Real-time webapp for coordinating carpools with friends and family with the aim of reducing carbon footprints

### MakeMeLunch *Firebase, NextJs, RapidApi, Axios, Javascript*

<https://makemelunch.xyz/>

Webapp that recommends new recipes based on your current ingredients to minimize food waste overspending on ingredients

### Fiesta *Firebase, React, ExpressJS, Firebase, Socket.io, OAuth*

<https://vercel.com/idkwhatimdoing/fiesta>

A real-time event planning app that streamlines the process of organizing and registering for events.

### Insite *React, Flask, D3, Charts.js, Firebase, Socket.io*

<https://insite.hop.sh>

A node-based data visualization tool

### Eat Safely *React, Flask, Hop.io, Socket.io*

<https://eat-safely.vercel.app/>

Web app that utilizes Machine Learning to predict whether food is safe to eat.

## AWARDS

### Cruz hacks 2022 Winner

Recognized for winning sponsor prize at Cruz hacks 2022

Cruz hacks 2022

Jan 2022

### Grace hacks 2022 Winner

Recognized for winning best mobile at Grace hacks 2022

Grace hacks 2022

November 2022

### Cruz hacks 2023 Winner

Recognized for winning a sponsor prize at Cruz hacks 2022

Cruz hacks 2023

Feb 2023