# Bill Zhang

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## Education

**University of California, Santa Cruz**                                                                 Santa Cruz, CA
Bachelor of Science in Computer Science *GPA: 3.62*          Sep 2020 - Expected Graduation Date: March 2023

## Work Experience

**X-Camp Academy**                                                                                                    San Jose, CA
*Teaching Assistant*                                                                                            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 facultyy

## 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/idkwhatimd0ing/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

**Cruzhacks 2022 Winner**                                                                                        Cruzhacks 2022
Recognized for winning sponsor prize at Cruzhacks 2022                                                      Jan 2022

**Gracehacks 2022 Winner**                                                                                      Gracehacks 2022
Recognized for winning best mobile at Gracehacks 2022                                                  November 2022

**Cruzhacks 2023 Winner**                                                                                        Cruzhacks 2023
Recognized for winning a sponsor prize at Cruzhacks 2022                                                    Feb 2023