

BILL ZHANG

San Jose, CA · billzhangsc@gmail.com · 4085858267 · <https://art3m1s.me/>

EDUCATION

University of California, Santa Cruz

Bachelor of Science in Computer Science *GPA: 3.64*

Santa Cruz, CA

Sep 2020 - Mar 2023

WORK EXPERIENCE

X-Camp Academy

Teaching Assistant

San Jose, CA

Jul 2022 - Present

- Instructed key algorithms and data structures to 20-30 students, resulting in a 90% class average on the final exam. Hosted weekly tutoring sessions to address individual student concerns.
- Collaborated with the lead instructor to create engaging lesson plans and activities, boosting student engagement by 25%. Initiated a peer review system to encourage collaboration and idea sharing among students.
- Evaluated assignments and exams for 50+ students per semester, offering constructive feedback that contributed to a 15% improvement in test scores. Detected common misconceptions and addressed these during class discussions.
- Bridged communication between faculty and parents by organizing regular meetings and progress updates, leading to a 30% increase in in-class participation and 50% rise in homework completion.

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>

Coordinated with a team, professors, and transport officials to develop a real-time UCSC loop bus tracker, utilizing Radio Transmitters, Raspberry Pis, and C programming, increasing route efficiency and serving 50 daily users.

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

<https://www.paddyplantprognosis.tech>

Collaborated in a cross-functional team to create an app for farmers to identify paddy crop diseases using computer vision, achieving 97% accuracy through Mobile Net Transfer Learning.

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

<https://sinkorswim.vercel.app>

Spearheaded a group project to build a web app predicting Titanic survival chances and generating narratives, employing a custom RNN with 84% accuracy and engaging over 500 users.

Pool Party *React, Express, Hop.io*

<https://mypoolparty.tech>

Collaborated with a team to develop a real-time carpool coordination web app, reducing users' carbon footprint by 50% on average and fostering sustainable habits.

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

<https://makemelunch.xyz>

Partnered with a diverse team to build a web app recommending recipes based on available ingredients, reducing food waste and helping users save on groceries.

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

<https://fiesta-one.vercel.app>

Engaged closely with a team to develop a real-time event planning app, streamlining event organization and registration.

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

<https://insite.hop.sh>

Conceptualized and developed a node-based data visualization tool, enhancing data analysis efficiency for clients.

Eat Safely *React, Flask, Tensorflow, Pandas, Matplotlib, Numpy*

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

Teamed up with a group to develop EatSafely, a web app detecting spoiled fruits using image recognition, achieving 97% accuracy with Mobile Net Transfer Learning, reducing the risk of consuming spoiled food.

AWARDS

Cruz hacks 2022 Winner

Cruz hacks

Honored for winning a sponsor prize at Cruzhacks 2022

Jan 2022

Gracehacks 2022 Winner

Gracehacks

Awarded for developing the best mobile application at Gracehacks 2022

Nov 2022

Cruzhacks 2023 Winner

Cruzhacks

Celebrated for winning a sponsor prize at Cruzhacks 2023

Feb 2023