BILL ZHANG

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EDUCATION

University of California, Santa Cruz
Bachelor of Science in Computer Science *GPA: 3.64*

Santa Cruz, CA
Sep 2020 - Mar 2023

University of Southern California
Master of Science in Computer Science - Artificial Intelligence

Los Angeles, CA
Expected Aug 2023 - Expected Aug 2025

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, Gatsby, ExpressJS, Flask, FastAPI, 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.

Assistance *Gatsby, FastAPI, Material UI, Nginx*   https://assistance.art3m1s.me/
Teamed up with a group to develop Assistance, a web app enabling users to simultaneously engage with 4 or more LLMs, enhancing choice while minimizing context-switching costs.

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*   https://sos.art3m1s.me/
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.

Insite *React, Flask, D3, Charts.js, Firebase, Socket.io*   https://insite.art3m1s.me
Engaged closely with a team to conceptualize and develope a node-based data visualization tool, enhancing data analysis efficiency for clients.

RELEVANT COURSEWORK

Full-Stack Web Development, Database Systems