

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

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
ML Libraries: Tensorflow, Keras, NumPy, Pandas, Scikit Learn, OpenCV
Visualization/Other Libraries: Matplotlib, Seaborn, D3Js

PROJECTS

Eat Safely *React, Flask, Tensorflow, Pandas, Matplotlib, Numpy* <https://eat-safely.vercel.app>

<https://github.com/IdkwhatImD0ing/EatSafely/blob/main/model.ipynb>

Developed EatSafely, a web app detecting spoiled fruits using image recognition, achieving 97% accuracy with Mobile Net Transfer Learning.

Paddy Plant Prognosis *Tensorflow, Vite, Flask, TailwindCSS* <https://www.paddyplantprognosis.tech/>

<https://github.com/IdkwhatImD0ing/PaddyPlantPrognosis/blob/main/modelv2.ipynb>

Collaborated with a team to develop an app aiding farmers in identifying paddy crop diseases using computer vision, achieving 97% accuracy via Mobile Net Transfer Learning.

Sink or Swim *NextJS, Flask, Tensorflow, TailwindCSS, OpenAI* <https://sinkorswim.vercel.app/>

<https://github.com/simon-quach/sink-or-swim/blob/main/titanic.ipynb>

Led a group project to create a web app predicting Titanic survival chances and generating narratives, utilizing a custom RNN with 84% accuracy.

PenmanshipPro *React, Express, Tensorflow, Keras* <https://kazitasin07.wixsite.com/penmanshippro>

<https://github.com/Renaud2002/PenmanshipPro-TLE/blob/main/model.ipynb>

Coordinated with a team to design a web app enhancing handwriting skills through interactive exercises, achieving 86% accuracy with a custom CNN model.

Disease Classification *Sklearn, Numpy, Seaborn, Matplotlib*

<https://github.com/IdkwhatImD0ing/Kaggle/blob/main/Diseases/model.ipynb>

Built a disease classification tool using Sklearn classifiers on a Kaggle Dataset. Final classifier achieved 100% accuracy.

Fruit Classification *Tensorflow, Matplotlib, Tensorflow, NumPy, Pandas*

<https://github.com/IdkwhatImD0ing/Kaggle/blob/main/Fruit360/model.ipynb>

Implemented an ML project to classify fruits using EfficientNetB0, achieving 99% validation accuracy and 96% test accuracy.

AWARDS

Cruz hacks 2022 Winner

Honored for winning a sponsor prize at Cruz hacks 2022

Cruz hacks

Jan 2022

Grace hacks 2022 Winner

Awarded for developing the best mobile application at Grace hacks 2022

Grace hacks

Nov 2022

Cruz hacks 2023 Winner

Cruz hacks

Celebrated for winning a sponsor prize at Cruzhacks 2023

Feb 2023