

# 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 faculty

## 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>

EatSafely is a web application designed to detect spoiled fruits and prevent foodborne illness. By utilizing image recognition technology, our app is able to identify fruits that have gone bad and alert the user to dispose of them. Using Transfer Learning with Mobile Net achieved final accuracy of 97%

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

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

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

App that uses cutting-edge computer vision technology to help farmers quickly and accurately identify diseases in their paddy crops. Utilizing Transfer Learning with Mobile Net, achieved accuracy of 97%

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

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

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

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. Trained a custom RNN with a final accuracy of 84%

**PenmanshipPro** *React, Express, Tensorflow, Keras*

<https://kazitasin07.wixsite.com/penmanshippro>

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

This webapp is designed to help improve handwriting through a series of interactive exercises and challenges. Trained a custom model with a final accuracy of 86%

**Disease Classification** *Sklearn, Numpy, Seaborn, Matplotlib*

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

Utilizing various Sklearn classifiers to classify diseases from a Kaggle Dataset

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

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

One of my first ML projects, classifying fruits using Transfer learning utilizing EfficientNetB0. Achieved final validation accuracy of 99% and test accuracy of 96%

## AWARDS

**Cruz hacks 2022 Winner**

Cruz hacks 2022

Recognized for winning sponsor prize at Cruz hacks 2022

Jan 2022

**Grace hacks 2022 Winner**

Grace hacks 2022

Recognized for winning best mobile at Grace hacks 2022

November 2022

**Cruz hacks 2023 Winner**

Cruz hacks 2023

Recognized for winning a sponsor prize at Cruzhacks 2022

Feb 2023