

# Justin Thai

3623 Whitworth, Dublin, CA 94568  
[jkminhthai@gmail.com](mailto:jkminhthai@gmail.com) | (925)-819-2273

## Objective:

To pursue knowledge in the field of machine learning and find applications in the real world.

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## Education:

Dublin High School, Dublin, CA 3.98 GPA  
High School Diploma, Class of 2020

## Coursework:

Computer Science Principles  
Honors Principles of Engineering  
AP Computer Science Applications  
Honors Digital Electronics  
Algebra I & II, Geometry, Trig. w/ Precalculus  
AP Calculus AB

## Skills:

Proficiency in programming  
Intermediate command line  
Competent in spanish  
Beginner in cooking

## Activities:

Engineering Academy—CS Pathway  
Piano—Achieved Certificate of Merit Level 9  
Kung Fu  
Tri Valley Aquatics Swim Team  
Pet Sitting

## Volunteer Experience:

**Teen Advocates for Science Communication:**  
June 2019 – Present  
I volunteered at the California Academy of Sciences. We were responsible for teaching visitors about the exhibits and organizing activities for special events hosted by the Academy.

## Projects:

### BackpAQ Personal Air Quality Monitor:

IoT data gathering project

I created a portable air quality sensor. The goal of this project is to have many of these devices carried around so they can gather detailed data about the air quality in our community. These IoT devices connect to the network through a wifi connection with the carrier's phone.

### AP Computer Science Applications:

Recipe App

As a 3-person team, we created an Android app to provide recipe recommendations based on the quantity of ingredients available to the user. I designed the structure of the ingredient and recipe databases for efficient access by the program, and wrote the functionality for inputting ingredients and recommending recipes.

### Honors POE:

Machine Control—Elevator Project

We created a model elevator that services three floors with the help of sensors and buttons intended to emulate the actual controls. In addition to setting up the sensors for the elevator in our model, I was also in charge of designing the logic used to move the elevator to the desired floors.

### Computer Science Principles:

Hangman Game

Our team designed a Python game in which the user inputs letters or words to guess the hidden word chosen by the game. I programmed the code that analyzed the user input to compare the guesses to the keyword.