Zach Tang 2937 Shadywood Ln Plano, Tx 75023 • zachtang0123@gmail.com • zachtango.github.io • 469-403-4480

EDUCATION

Courses: Junior year Multivariable Calculus Computer Science 1 Computer Science 2 Linear Algebra Differential Equations	Texas Academy of Math and Science at UNT August 2019 - Present
 Freshman/Sophomore year AP Computer Science Principles (AP Score 5) AP Calculus BC (AP Score 5) Honors Pre-Calculus Professional Communications 	Jasper Highschool August 2017- June 2019
ORGANIZATIONS	
Robotics Club Member • Helped with design and engineering of the Jasper Highschool robot for FTC competitions 2018-2019	August 2018 - June 2019
 Plano West Cross Country and Track Member Daily, early morning training with the rest of the Plano West team members to prepare for Cross Country and Track season 	August 2017 - June 2019
 TAMS Sports Club Member Participate in sports, specifically Ultimate Frisbee, and work to improve the sports team's ability and teamwork to prepare for the SLAMT tournament 	August 2019 - Present
TAMS Elm Fork Committee Member ● Direct kids in fields trips which engage them in science and math	August 2019 - Present
TAMS Mu Alpha Theta Volunteering Member ■ Tutor Sam Houston Elementary kids in 4th and 5th grade in math subjects	August 2019 - Present
 TAMS Computer Science Organization Volunteering Member Solve technical problems residents of the Good Samaritan Society have 	August 2019 - Present
TAMS SciOly Team Member ■ Compete in Science Olympiad competitions such as Louisiana Tech Invitational	Jan 2020 - Present
TAMS VIBE Member ● Weekly dance practice to prepare for dance performances for TAMS social events	Jan 2020 - Present

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LittleDOCC (Open Coffee Club) Member

Jan 2020 -

• Meetup every other Tuesday at a coffee shop in Denton to talk about the latest in technology, startups, lifestyle, and business

Present

PROJECTS

Package Delivery Menu (C++)

Calculates the cost for a delivery of a package based on travel type and location of the start and end destination from user input.

Worked with loops and conditionals to make sure the user input was valid information

Anthony's Battle (C++ game)

Anthony the ant wants to take over hidden colonies, with his army of ants, that are laid out over a board. Help Anthony find the location of every colony on the board!

 Created multiple functions to affect a 2D matrix, which stores the info of the game board, based on user input

Tic Tac Toe (HTML/Javascript game)

Classic Tic Tac Toe game

• Worked with event handlers, such as onclick, to simulate the action of choosing a position in Tic Tac Toe

Systems of Equations Solver (*HTML/Javascript*)

Solves a system of 3 equations using the Gaussian Elimination algorithm drilled into me by the professor of my Linear Algebra course

• Created multiple functions to replicate the algorithm on a 2D matrix representation of the system of equations given from user input

Smart Route (Flutter/Dart, Hack SMU II 3rd place overall, 3rd place State Farm)

Chooses safest route to a given destination based on metrics taken from real-time weather API

- Styled user interface using Flutter
- Sent HTTP requests to gather real-time weather information from the Darksky API
- Worked on the functions that took the data from the Darksky API to determine the safest route to a destination

Song Filter (HTML/Javascript)

Filters out songs based on genre selected by a user

- Used query strings to get the genres the user selected
- With the genres selected data, I filtered songs with matching genre attributes to the selected genres