

Johnson Tong

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EDUCATION

California State University - Fullerton | Bachelor of Science in Computer Science Expected May 2023

3.93/4.0 GPA - Dean's List

Coursework: Object Oriented programming (C++), Intro to MATLAB, Data Structures, Assembly in x86 Intel, Intro to Java, Linear Algebra and Differential Equations, Statistics, Calculus (1-3), Math Structures(I&II)

EXPERIENCE

Supplemental Instruction Leader - Math and Computer Science 08/2019 - Present

California State University - Fullerton

- Planned and facilitated practice sessions for groups of 5 to 10 students for Calculus II and Introduction to Programming.
- Prioritized peer to peer collaborative techniques and pushed students to hone their understanding of course material.

ACM Workshop Manager 01/2020 - Present

California State University - Fullerton

- Organized and conducted workshops for students in the ACM CSUF chapter on topics including Git and Github, web development, and Python.

PROJECTS

Grades? App

- Web application that I originally made for myself to calculate my course grades and test custom assignments
- Utilized Express.js with Mongoose to design and write a RESTful API for CRUD operations on user data.
- Utilized Node.js to design and set up a web server on Heroku that communicates with MongoDB
- Implemented a simple login system
- Frontend built on React.js

Sorting Visualizer

- Explored and implemented common sorting algorithms into fun, smooth visual animations using React
- Provided explanations, pseudocode, and other resources for viewers to learn more

Personal Website

- Utilized HTML, CSS, and Javascript to create a modern and responsive personal website.
- Animations created using GSAP and AOS libraries

Battleship Game

- Organized and planned with two other students in developing a Battleship game using MATLAB, with me being the primary programmer
- Single and two player mode, with input validations for user input
- Single mode with "Easy" and "Hard" difficulties, each with their own simple algorithms

Banking Website - Boiler Hacks

- Created a banking website applying similar technologies that I learned from my Grades? App to allow users to register and login
- Simple withdrawal and deposit mechanics implemented with the provided banking API.

SKILLS AND TECHNOLOGIES

C++, Python, HTML, CSS, JavaScript, React, MATLAB, Mongoose, Node, Git and Github, Linux, Java, SolidWorks, AutoCAD

Other Skills: Mandarin, leadership, communication, quick learner, time management, problem-solving