Anthony Wong

https://github.com/tonyw2311

EDUCATION

Texas A&M University, College Station, TX **May 2023**
BS in Mechanical Engineering, Minor in Communications **Cumulative GPA: 3.6**
Coursework: Machine Learning, Numerical Methods, Dynamic Systems and Controls, Mechanical Robotic Manipulators, Strategic Communications, Technical Business Writing, Intercultural Communication
Online Coursework: Web Development Udemy Course, SQL Udemy Course
Awards: Dean's List, New Perspectives Mechanical Engineering Scholarship

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SKILLS

Languages: Python | Java | JavaScript | SQL | HTML | CSS
Frameworks: React | MongoDB | Express
Tools: Git | VSCode | Eclipse | Anaconda | Node | CronTab | MS Office | BootStrap | Vite | Tailwind | jQuery
Software Engineering Techniques: Object-oriented development, Test-driven development

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PROJECTS

24 Card Game Web App
HTML | CSS | JavaScript (React) | Node (Express)
- Developed a single page web app that allows users to play the 24 Puzzle Game using the **MERN** stack that included a leaderboard and scoring system
- Implemented a drag and drop feature which allows user to rearrange cards
- Constructed a program that generate four random numbers that would result in a solution of 24

Wordle Automation
Python (Selenium)
- Developed an algorithm that would guess the 5 letter word in wordle within 5 attempts
- Utilized the **Selenium** package in python to scrape and interact with the wordle website

Weather API Project
Python (Requests, JSON)
- Pulled data from a public weather **API** using python packages **request** and **JSON**
- Constructed a **crontab** that would alert the user of the local weather conditions for the day

Machine Learning Project
Python (SciKit Learn, Numpy, matPlotlib, Pandas)
- Predicted the 3D printability of an alloy using **ANN** and **kernel SVM** algorithms given a dataset containing with the alloy composition various percentages of Fe-Ni-Cr
- Utilized the **SciKit-Learn** machine learning packages to analyze dataset
- Extracted pickled dataset using **Pandas** and generated plots to visualize the data and classification using **numpy** and **matPlotlib**

EXPERIENCE

SAFRAN SEATS USA, Gainesville, TX May 2022- Aug 2022
Project Engineer Intern | AutoCAD | CATIA
- Verified and validated requirements needed for the airplane seat and aircraft based off specifications from the FAA, Boeing/Airbus and internal specs
- Assessed various weight components within seats and identified errors in purchasing report
- Streamlined process of documentation for project engineers

uTurbine - MEEN Senior Design Project Aug 2022 - Present
Project Lead | SolidWorks | SolidWorks CFD
- Optimized a novel offshore wind turbine to participate in the Collegiate Wind Competition
- Led a team of 7 in tri-weekly meetings to optimize individual parts with unique solutions
- Worked with SolidWorks Computational Fluid Dynamics to validate each individual part design
- Collaborated with the Industrial Systems Engineering Team on the high-level aspects of the design, manufacturing, interactions with environment, budget costs

Texas A&M University, College Station, TX Aug 2021- Dec 2021
Intro Python Course Teaching Assistant
- Supervised a class of 50 freshman engineers in Python and graded various quizzes and assignments
- Guided students during office hours each week on their assignment

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INTERESTS

Guitar | Bass guitar | Piano | Ukulele | Weight-lifting | Recreational boxing | Running | Chess