THADDEUS DAI

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EDUCATION

The University of Texas at Austin	Bachelor of Science, Mechanical Engineering Honors	May 2022
	Minors: Computer Science, Business	
	Overall GPA: 3.892	

WORK EXPERIENCE

Quality Lifecycle Engineering Intern, Hewlett-Packard Enterprise   Summer 2020 – Present
- Conducted over 300 technical case reviews with a group of hardware engineers and a quality program manager
- Provided feedback to case owners and coordinated action items across multiple teams to find the root cause and solution to product issues and failure trends
- Gathered customer focused data and presented updates to upper management and neighboring teams in monthly meetings and weekly executive reviews
- Adjusted SQL queries and pulled data from the company's database using Microsoft SQL Server Management Studio

PROJECTS

Covid-19 Blogs   Summer 2020
- Built a Convolutional Neural Network with an accuracy and validation accuracy of over 95% that users can upload an image to and check if they are wearing a facemask
- Integrated a REST API with a dynamic, user friendly frontend to build a web application that allows authenticated users to read, write, and search for blogs relating to Covid-19
- Tools: Django, Unittest, React.js, Webpack, Bootstrap, Keras, Numpy, Tensorflow, Sklearn, Pandas, PostgreSQL

Titanic Predictor   Summer 2020
- Constructed a machine learning model by using the Titanic data set from Kaggle to build a Neural Network that can predict if someone would have survived the sinking of the Titanic with an accuracy of approximately 80% and implemented it in a REST API
- Designed a frontend that takes in users input, posts them to the REST API, and returns the results
- Tools: Django, React.js, Materialize, Heroku, Keras, Tensorflow, Sklearn, Numpy, Pandas, MySQL

Task Planner   Summer 2020
- Created a web application that allows authenticated users to record tasks they need to do and visualize the number of tasks they have done per day for the past month through a graphical representation
- Tools: Django, Bootstrap, Matplotlib, Heroku, PostgreSQL

LEADERSHIP EXPERIENCE AND ACTIVITIES

Longhorn Entrepreneurship Agency – *Logistic Co-lead (Fall 2020-Present)*   Fall 2019 – Present
- Created process documents and delegated tasks to team members to plan out a speaker series that allow successful entrepreneurs to speak to aspiring entrepreneurial students

Texas Aerial Robotics – *Hardware Team*   Spring 2019 – Present
- Soldered electrical components together, such as motors wires to the ESC (Electronic Speed Controller), to allow flexibility in the design of the team's drone
- Designed components, such as sonar mounts, using 3D design software, SolidWorks

HONORS

- Cockrell School of Engineering Honors Scholarship (4 Semesters)   Fall 2018 – Spring 2020
- University Honors (4 semesters)   Fall 2018 – Spring 2020

ADDITIONAL INFORMATION

Computer Skills: Python, Javascript, HTML, CSS, SolidWorks, Matlab, Microsoft Excel, Word, PowerPoint
Languages: English (Native Language), Mandarin (Fluent in speech)
Interests: Karaoke, Weightlifting, Chess, Football, Basketball, Soccer, Juggling
Work Eligibility: Eligible to work in the U.S. with no restrictions