

THADDEUS DAI

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• <https://thaddeusdai.github.io/personal-website/>

EDUCATION

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

Quality Lifecycle Engineering Intern, Hewlett-Packard Enterprise	Summer 2020 – Present
<ul style="list-style-type: none">Conducted over 300 technical case reviews with a group of hardware engineers and a quality program managerProvided feedback to case owners and coordinated action items across multiple teams to find the root cause and solution to product issues and failure trendsGathered customer focused data and presented updates to upper management and neighboring teams in monthly meetings and weekly executive reviewsAdjusted SQL queries and pulled data from the company's database using Microsoft SQL Server Management Studio	

PROJECTS

Covid-19 Blogs	Summer 2020
<ul style="list-style-type: none">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 facemaskIntegrated 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-19Tools: Django, Unittest, React.js, Webpack, Bootstrap, Keras, Numpy, Tensorflow, Sklearn, Pandas, PostgreSQL	
Titanic Predictor	Summer 2020
<ul style="list-style-type: none">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 APIDesigned a frontend that takes in users input, posts them to the REST API, and returns the resultsTools: Django, React.js, Materialize, Heroku, Keras, Tensorflow, Sklearn, Numpy, Pandas, MySQL	
Task Planner	Summer 2020
<ul style="list-style-type: none">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 representationTools: Django, Bootstrap, Matplotlib, Heroku, PostgreSQL	

LEADERSHIP EXPERIENCE AND ACTIVITIES

Texas Aerial Robotics – Hardware Team	Spring 2019 – Present
<ul style="list-style-type: none">Soldered electrical components together, such as motors wires to the ESC (Electronic Speed Controller), to allow flexibility in the design of the team's droneDesigned components, such as sonar mounts, using 3D design software, SolidWorks	
Longhorn Entrepreneurship Agency – Logistic Team	Fall 2019 – Present
<ul style="list-style-type: none">Connected students to Austin's startup scene by hosting and promoting entrepreneurship events	
Lambda Chi Alpha Fraternity – Alumni Committee	Fall 2018 – Present

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, 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