

# THADDEUS DAI

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

## EDUCATION

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

<b>Quality Lifecycle Engineering Intern, Hewlett-Packard Enterprise</b>	Summer 2020 – Present
<ul style="list-style-type: none"><li>Conducted over 300 technical case reviews with a group of hardware engineers and a quality program manager</li><li>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</li><li>Gathered customer focused data and presented updates to upper management and neighboring teams in monthly meetings and weekly executive reviews</li><li>Adjusted SQL queries and pulled data from the company's database using Microsoft SQL Server Management Studio</li></ul>	

## PROJECTS

<b>Covid-19 Blogs</b>	Summer 2020
<ul style="list-style-type: none"><li>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</li><li>Integrated a REST API and 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</li><li>Tools: Django, React.js, Webpack, Bootstrap, Keras</li></ul>	
<b>Titanic Predictor</b>	Summer 2020
<ul style="list-style-type: none"><li>Constructed a web application and used the Titanic data set from Kaggle to build a Neural Network for that can predict if someone would have survived the sinking of the Titanic with an accuracy of approximately 80%</li><li>Tools: Keras, Django, React.js, Materialize, Heroku, PostgreSQL</li></ul>	
<b>Task Planner</b>	Summer 2020
<ul style="list-style-type: none"><li>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</li><li>Tools: Django, Bootstrap, matplotlib, Heroku, PostgreSQL</li></ul>	

## LEADERSHIP EXPERIENCE AND ACTIVITIES

<b>Texas Aerial Robotics – Hardware Team</b>	Spring 2019 – Present
<ul style="list-style-type: none"><li>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</li><li>Designed components, such as sonar mounts, using 3D design software, SolidWorks</li></ul>	
<b>Longhorn Entrepreneurship Agency – Logistic Team</b>	Fall 2019 – Present
<ul style="list-style-type: none"><li>Helped connect students to Austin's startup scene by facilitating employment opportunities through posting entrepreneurship events on social media and promoting the Longhorn Investment Competition</li></ul>	
<b>Lambda Chi Alpha Fraternity – Alumni Committee</b>	Fall 2018 – Present
<ul style="list-style-type: none"><li>Further connected the fraternity to its alumni network by contacting alumni to attend particular events and reunions</li></ul>	

## HONORS

• Cockrell School of Engineering Honors Scholarship (4 Semesters)	Fall 2018 – Fall 2019
• University Honors (4 semesters)	Fall 2018 – Fall 2019

## ADDITIONAL INFORMATION

**Computer Skills:** Python, Javascript, SolidWorks, Matlab, Microsoft Excel, Word, PowerPoint,

**Languages:** English (Native Language), Mandarin (Fluent in speech)

**Interests:** Karaoke, Weightlifting, Chess, Sports, Juggling

**Work Eligibility:** Eligible to work in the U.S. with no restrictions