

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
Relevant Coursework	*Web Programming, *Software Engineering I, *Engineering Statistics, Software Design, Differential Equations with Linear Algebra, Program and Engineering Computation Methods	*=Expected Fall 2020
Technical Skills	Python, Javascript, C/C++, PHP, HTML, CSS, SQL, Docker, Git, SolidWorks, Matlab, Microsoft Office	

WORK EXPERIENCE

Quality Lifecycle Engineering Intern, Hewlett Packard Enterprise (Houston, Texas)	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 manager to resolve product issues and improved customer pain and intervention rate by 2%Provided feedback to case owners and coordinated action items across multiple teams to perform root cause analysis and closed loop corrective action to identify the root cause and solution to product issues and failure trendsGathered customer focused data and performed data analytics to present updates to upper management in monthly meetings and weekly executive reviewsWrote SQL queries to pull 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 facemaskUsed test driven development to create a REST API and integrated it 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, Unit test, 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	

LEADERSHIP EXPERIENCE AND ACTIVITIES

Longhorn Entrepreneurship Agency – Executive Board (Fall 2020 – Present)	Fall 2019 – Present
<ul style="list-style-type: none">Created process documents and delegated tasks to team members to plan a speaker series that allow successful entrepreneurs to speak to aspiring entrepreneurial students	
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), and designed components using 3D design software (SolidWorks) to allow flexibility in the design of the team's drone	
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

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