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

Relevant Coursework — *Web Programming, *Software Engineering I, *Engineering Statistics, Software Design, Differential Equations with Linear Algebra, Program and Engineering Computation Methods — *=Expected Fall 2020

WORK EXPERIENCE

Quality Lifecycle Engineering Intern, Hewlett Packard Enterprise (Houston, Texas) — Summer 2020 – Present

- 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 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
- Used 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-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

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 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), 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

Computer Skills: Python, Javascript, C/C++, PHP, HTML, CSS, PostgreSQL, Docker, Git, SolidWorks, Matlab, Microsoft Office
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