Thaddeus Dai

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EDUCATION

The University of Texas at Austin, Austin, TX

Spring 2022

Bachelor of Science in Mechanical Engineering Honors

Minors in Computer Science and Business

GPA: 3.89/4.00

Relevant Coursework: Web Programming, Software Engineering, Software Design, Differential Equations, Engineering Statistics **Skills:** Python, JavaScript, C/C++, SQL, PHP, HTML, CSS, Docker, Git, Agile Methodology, MATLAB, SolidWorks, Microsoft Office

EXPERIENCE

Hewlett Packard Enterprise | *Quality Lifecycle Engineering Intern*

Houston, TX | Summer 2020 - Present

- Resolved 500+ technical cases from various stakeholders and lowered customer pain by 2% by detecting issues early in a product's lifecycle
- Lowered intervention rate by 2.2% and reduced warranty costs for 2 major products
- · Coordinated action items across multiple teams and performed fault analysis and closed loop corrective action on failure trends
- Wrote SQL queries to manage and gather large data sets from the company's database
- Conducted data analysis to present weekly updates to upper management on multiple products

PROJECTS

Covid-19 Blogs

- Implemented artificial intelligence and deep learning techniques to develop a convolutional neural network (CNN) with an accuracy of over 95% in detecting people wearing facemasks in images
- Used test driven development to construct a back-end REST API that incorporates the CNN
- Built a dynamic front-end to create a full stack web application that allows users to read and write blogs relating to coronavirus
- Tools used: Django, Unit test, ReactJS, Redux, Webpack, Bootstrap, Keras, Numpy, Tensorflow, Sklearn, Pandas, PostgreSQL

Titanic Predictor

- Developed a machine learning model using Kaggle's Titanic data set that predicts if a person would have survived the sinking of the Titanic with approximately 80% accuracy
- Constructed a back-end REST API that is integrated with the machine learning model
- Designed a user-friendly front-end that takes in a user's input, posts them to the REST API, and returns the results
- Tools used: Django, ReactJS, Materialize, Heroku, Keras, Tensorflow, Sklearn, Numpy, Pandas, MySQL

ACTIVITIES & LEADERSHIP

Longhorn Entrepreneurship Agency | *Executive Board* ('20-'21)

Fall 2019 – Present

- Directed the logistics team in writing process documents to remove operational ambiguity and improve efficiency
- · Delegated tasks to members and coordinated with other organizations to manage and plan entrepreneurship events

Texas Aerial Robotics | *Hardware Team*

Spring 2019 - Present

- Soldered electrical components and developed 3D designs using SolidWorks to build an autonomous drone
- Competed in the International Aerial Robotics Competition

Lambda Chi Alpha Fraternity | Active Member

Fall 2018 - Present

Volunteered at Central Food Bank multiple times a semester to achieve the fraternity's philanthropic goal of ending hunger

AWARDS

Cockrell School of Engineering Honors Scholarship (4 Semesters)
University Honors (4 Semesters)

Fall 2018 - Spring 2020

Fall 2018 - Spring 2020

ADDITIONAL INFORMATION

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

Interest: Karaoke, Weightlifting, Chess, Football, Basketball, Soccer, Juggling **Work Eligibility:** Eligible to work in the U.S. with no restrictions (US Citizen)