Quenton Hua

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EDUCATION

Texas A&M University Sep 2021-May 2024 (Expected)
Bachelor of Science – Computer Engineering | GPA 3.5/4.0 College Station, TX

PROFESSIONAL EXPERIENCE

JPMorgan Chase & Co. Jun 2022 – Aug 2022
Software Engineer Intern Houston, TX

- Built a neural network to predict user selections in order forms containing hundreds of product specifications, minimizing the number of questions a client must manually fill out.
- Developed, trained, and deployed a machine learning model with a prediction accuracy of 98% utilizing AWS environment.
- Developed scripts in Python to process large volumes of client order form data to feed into a supervised learning model for training.
- Provided the first machine learning solution for team project with complete technical documentation.
- Established and followed an Agile methodology throughout the project for fast and efficient delivery.

PROJECT EXPERIENCE

Mental Health Tracker (Blossom) Jan 2022
Competitor – Tamuhack Houston, TX

- Created a mental health tracker that allows the user to log their mood through a selection of 5 emoticons (happy-sad) with additional visualization and monitoring of mood progression through trendlines.
- Designed the web user interface end to end with a focus on intuitive user experience, implementing graphics and APIs utilizing HTML, CSS, JavaScript, and Python.

Germination Systems Sep 2021 – Jan 2022
Team Member – (TURTLE, A&M robotics & leadership club) College Station, TX

- Utilized Python to monitor plant health through various sensors measuring oxygen, nutrients, temperature, and pH, with the goal of creating an automated hydroponic plant system.
- Assembled prototype; soldered wires and tested hardware in collaboration with team members.

NAE Project Solar Calculator Jan 2021 – Apr 2021
Project Lead – University of Houston Houston, TX

- Produced a MATLAB application to estimate the cost of setting up a solar farm and amount of time needed to turn a profit based on a user's square footage of house and state using MATLAB and Excel.
- Developed the main script and multiple functions for project including the function taking in user input and the function for calculating the time needed to offset the cost.
- Led team of four by handling team meeting scheduling, recording progress of project against goals and timelines, informing members of changes or complications, and delegating tasks to team members.

Reconfigurable Modular Manipulator (RMM) Sep 2019 – Dec 2019
Intern – (TRAClabs) Houston, TX

- Updated a circuit schematic for one of the joints in TRAClab's Reconfigurable Modular Manipulator (RMM), a highly modular robotic arm built for NASA.
- Adjusted the schematic design to be compatible with a newly implemented locking mechanism on the joint of the robotic arm, enabling the transfer of data and power and easier disassembly of arm.

TECHNICAL SKILLS

Frameworks/Packages: Amazon Web Services (AWS), Bootstrap, NumPy, Pandas, Tensorflow, Jupyter
Languages: Python, C++, JavaScript, HTML, CSS, MATLAB, Verilog