RICHARD TRAN

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Summary of Qualifications

I am a University of Washington alumni with a Bachelors of Science in Electrical Engineering with aspirations in becoming a software engineer. I am a goal-oriented person and have experience in solving problems individually and in groups with deadlines. I am passionate about working in a diverse and open-minded team, learning, and teaching.

Education

University of Washington | Seattle, WA | Graduated: June 2023

- Bachelors of Science in Electrical Engineering
- Related Coursework: Computer Programming, Statistics, Adv. Tech Writing, Signal Processing, Data Structure and Algorithms, Embedded Systems, Web Programming, Control System Analysis, Machine Learning Signal Processes Applications, Computer-Communication Networks

Programming skills

Python, Javascript, HTML/CSS, SQL, React Native, Java, C/C++, Pytorch, Arduino

Experience

Data Insights Application for Obesity | UW | Novo Nordisk (NN) | Seattle, Wa | January-June 2023

- Created an application that visually displays NN data on obesity and SDoH correlation to comorbidity and related costs
- Managed coding environment using GitHub
- Created low and high fidelity wireframes using Figma to display application function
- Used Python with Bokeh library to create data visualization of obesity data based on user query
- Used Python with Flask API utilizing RESTful API to effectively connect our front and back end
- React Native = Created 1 component = the drop down feature to select state + comorbidity
- Role of Project Manager where I managed communication with NN mentors and UW TA, created project plan and gantt chart, oversee team progression
- Participated in UW ENGINE showcase to orally and visually present our application for 2 hours

TCP Chat-Application | UW | Seattle, WA | May-June 2023

- Designed a TCP based chat application using Python's socket library allowing users on different devices to communicate under the same network
- Created a Server.py and Client.py file for application to broadcast a user message to other users

Yipper | UW | Seattle, WA | December 2022

- Created client-side and server-side code that uses HTML, CSS, JavaScript, Node.js, and SQLite to create a website that allows users to view, like, and create posts
- Created an API with 4 different endpoints (2 GET request, 2 POST request) that uses AJAX to fetch data in text and JSON format from a database
- Created a Markdown file to document each endpoint of my API
- Used Git version control in order to submit files

Follow Me Remote Control Car | UW | Seattle, WA | June 2022

- Worked with a partner to code in Arduino and made use of FreeRTOS OS package and L298N motor sheet alongside their respective datasheets in order to program the car
- Created schedulers in order to delay and halt specified tasks as well as used a queue to share data between tasks
- Use SolidWorks to create a 3D model and 3D printed the chassis for the RC car
- Created a final product that will follow an object that is in front of the RC car with the use of an ultrasonic sensor and turn left or right based on user input into an IR remote

Discord Journal Bot | Home | Renton, WA | June 2022

- Worked with a partner and used Discord's API (discord.js Node library) to create a bot in a Discord server used as a journaling tool
- With user input of a command and data, the bot will format data in a list and organize it by date