

XU WANG

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Education

Virginia Tech

M.Eng in Computer Science GPA 4.0

Aug. 2020 – Dec. 2021

Falls Church, VA

Virginia Tech

M.S. in Accounting and Information System - Virginia CPA

Sep. 2016 – May. 2018

Blacksburg, VA

Dongbei University of Finance and Economics

B.S. in Tourism

Sep. 2012 – May. 2016

Dalian, China

Experience

Dyson

Software Engineer

May 2022 – June 2023

Shanghai, China

- Contributed to the MyDyson Application on WeChat Mini-Program platform, employing HTML/CSS and Typescript.
- Developed the "Instant Control" feature for new Dyson machines, achieving real time responsiveness by processing MQTT message queues for dynamic web content display.
- Implemented user manual and troubleshooting guides within the app, resulting in over 3,000 monthly interactions and a 10% boost in user engagement metrics.
- Improved user interface design, contributing to a 4.4% enhancement in user satisfaction as reflected in an increase from a 4.5 to a 4.7 user rating on a 5-point scale.
- Collaborated closely with the UI/UX team to implement material UI design principles, further improving interface consistency and user experience.
- Engaged in Agile methodologies, completing 100% of assigned tickets on schedule, which contributed to on-time delivery of project milestones.

Projects

Better Banking Application | *Java, Springboot, Junit5, OAuth2* Code

September 2023

- Developed the Better Banking Application using Springboot, an application that enriches bank statements with merchant codes, and generates informative graphs to increase consumer engagement.
- Enhanced system reliability by writing component and integration tests in Junit 5 and integrating a circuit breaker with Resilience4J, reducing failed request downtime through effective fallback strategies.
- Optimized application response times by caching with a Redis server. Secured application endpoints with Spring Security, implementing OAuth2 authentication to enable secure user logins via Google or Github.

Urban Advisor Web Application | *Python, Django, SQLite, JQuery* Code | Demo

September 2021

- Urban Advisor is a full-stack web application providing personalized insights on household living quality.
- Leveraged the Django framework for robust back-end functionality, with JQuery enriching the front-end experience; facilitated seamless data interactions using HTTP and Ajax.
- Crafted Python algorithms to customize user spending predictions based on individual input, enhancing the app's utility for budgetary planning.
- Integrated Chart.js for dynamic data visualization, offering users interactive graphs and charts for an intuitive analysis of living conditions.

OpenAI Article Summarizer | *React.js, Redux, Vite, Tailwind.css* Code | Demo

September 2023

- Created an OpenAI GPT-4.0 powered web application to summarize website content, enhancing reading efficiency.
- Used React.js and Redux to create an intuitive interface for real-time input management and historical data review.
- Integrated local storage caching for API responses, thus improving load performance and minimizing network traffic.

Technical Skills

Programming Languages: TypeScript/JavaScript, Java, C++, Python, Kotlin, SQL

Front-end Frameworks/Tools: Vue.js, React.js, Vite, Webpack 5, Jest, ECharts, JQuery, Bootstrap

Back-end Frameworks/Tools: Node.js, Springboot, OpenAPI, Django, Junit 5

Database Management: MySQL, SQLite, MongoDB