**Rachel (Tong) Wu**

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**PROFESSIONAL EXPERIENCE**

**Webonise Lab Raleigh, NC**

UI Designer (UI Developer) Sep 2022 - Aug 2023

* Revamped **cloud-based SaaS dashboard** for an Asset management **Fintech** client, including designing an optimized **CRM** system and deal management system on a responsive web platform.

Revamped cloud-based SaaS dashboard for an Asset management Fintech client, optimizing CRM system functionality and reducing page load time by 30%, while enhancing user interaction through responsive design.

Revamped cloud-based SaaS dashboard for an Asset management Fintech client by introducing dynamic data loading and multi-device compatibility, resulting in improved system performance and user satisfaction.

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* Spearheaded client-side UI validation, implementing custom validations and business logic based on user interactions using **JQuery UI, Bootstrap** and **AngularJS**.
* ~~Collaborated effectively with architects and back-end developers to gather requirements and enhance application functionality, introducing new features that aligned with project goals.~~
* ~~Actively contributed to a development team responsible for the UI, layout, and front-end programming of web applications~~. Utilized **HTML**, **CSS**, and **JavaScript** to deliver solutions that met sprint requirements.
* ~~Utilized~~ **~~Bootstrap~~**~~,~~ **~~Sass~~**~~, and~~ **~~AngularJS~~** ~~frameworks to create efficient, robust web applications with responsive designs.~~
* Conducted unit and performance testing using **Junit** and **Jasmine** to ensure application reliability and efficiency.
* \*End result, some numbers if available\* (through revamping, did you add or add the potential of new functionalities? Did speed/response times improve? by how much?)

**Molarray Research Inc. Toronto, ON, Canada**

Software Developer May 2022 - Aug 2022

* Developed a multi-threaded WPF application using MVVM to control a nucleic acid extractor via serial port, improving machine capabilities.
* Converted the WPF application into a dual system: a C++ application for machine operation and an ASP.NET web app for frontend, enhancing efficiency and reliability on a Linux-based Minicomputer.
* Improved motor motion efficiency by 20% through scripting in the motor provider's language, boosting overall system performance. Researched and tested three automated pipettes (Hamilton, Keyto, Cool Pipette), aiding in biotech system integration decisions.
* Implemented Gitea on a local server for secure code repository management, enhancing team's version control and code management.

**Xuanbeige Equity Investment Partnership Nanjing,China**

Full-Stack Developer Dec 2020 - Sept 2021

* Developed a ~~feature-rich~~ **E-Commerce** website from inception to deployment, ~~ensuring an engaging online shopping experience~~.
* Designed and implemented ~~an intuitive~~ the front-end interface using **HTML**, **CSS**, and **~~JavaScript~~**~~, leveraging the~~ **React.js**.
* Utilized **Python** with **Django** for robust back-end functionality, including **CRUD** operations on product catalog management, shopping carts, user authentication, order processing features~~, etc, while using~~ and **MangoDB** for efficient data storage and retrieval.

**EDUCATION**

**University of Toronto, Master of Information** | GPA 3.7 **Sep 2020 - Dec 2022**

* **Courses:** Programming for Data Science, Data Science and Algorithm, Experimental Design for Data Science

**University of Waterloo, Bachelor of Engineering** | GPA 3.7 **Sep 2015 - Oct 2020**

**PROJECTS**

**MERN Stack Stock Trading Web Application Jun 2022**

* Utilized Styled-Components/Material-UI and **React.js** to implement the front-end UI design of Stock Trading.
* Built **RESTful APIs** with **Node.js(Express)**/**MongoDB** to handle HTTP requests and responses.
* Developed CRUD operations for data retrieval and managed app states with **Redux Toolkit** for asynchronous action.
* Implemented **JSON Web Token(JWT)** to create user authentication, to improve security and verify requests.

**AWS Cloud-Base Class Attendance System Jun 2023**

* Employed serverless **REST API** development for **Java** on **AWS Lambda** and API Gateway, enhancing scalability by 25%.
* Constructed a system that automates class attendance with **Spring Boot** in REST style and a Python Service to do facial recognition.
* Used **Spring Boot** to support transactional CRUD into **MySQL** database, and utilized OpenCV in Python.
* Designed database Schema and configured **MySQL** client, collaborated with researchers on the deep **neural network**.

**SKILLS**

* **Programming**: Python, Java, C#, HTML, CSS, JavaScript, React.JS, Node.JS, jQuery, Bootstrap, Django, Spring Boot
* **Database**: NoSQL databases (MongoDB, DynamoDB), SQL/relational databases (MySQL)
* **Technology**: RESTful API, JSON, GitHub, Linux, AWS, Agile