Rita Wang

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EDUCATION

University of Toronto Expected December 2024
Honours Bachelor of Science in Computer Science and Statistical Science *Toronto, ON*
- **Relevant Coursework:** Data Structures and Algorithms (Python), Software Design (Java), Theory of Computation, Video Game Design (Unity), Machine Learning, Data Analysis, Linear Algebra, Linear Optimization, etc.

EXPERIENCE

ILLA Cloud June 2023 – October 2023
Full Stack Software Engineer Intern *Delaware, United States*
- Host HackToberFest 10th Anniversary.
- Implemented and debugged over **20** front-end UI features and components of the company's website with **React.js**, **Next.js**, and **TypeScript**, designed responsive and intuitive UI using **Figma**.
- Performed testing on web pages, analyzed user feedback, and collaborated with the product manager, UI designer, and other developers to develop innovative solutions.

Borealis AI, RBC May 2022 – July 2022
ML and AI Engineer Intern *Toronto, ON*
- Collaborated with Borealis AI, RBC to develop a predictive enrollment analytics App prototype using **Figma** for UI design.
- Utilized **Python** to implement and compare the performance of various machine learning models, including linear regression, random forest, XGBoost, and AdaBoost, resulting in an **81%** accuracy rate.
- Leveraged data cleaning and visualization by Python with **Matplotlib** and **Seaborn** to preprocess the dataset, uncover insights, and effectively communicate model findings.

Data Glacier March 2022 – July 2022
Data Analyst Intern *Remote*
- Leveraged **SQL** and **Python** with Pandas to preprocess and engineer features for a dataset of over **850,000** records, created a comprehensive master dataset, and executed exploratory data analysis.
- Implemented Random Forest Regressor in **Scikit-Learn** and Long Short-Term Memory (LSTM) in **PyTorch** for time series analysis, reducing baseline test RMSEs by 7.61% and 5.97% respectively.

PROJECTS

Accounting System | *Java* May – Aug 2024
- Utilized **Java** to deployed an Accounting System that allows users to create account, manage financial records, generate financial reports, and ensure compliance with accounting standards.
- Integrated Google Cloud Text-to-Speech and Drive **APIs** to automate conversion of financial reports to audio and securely sync critical data to the cloud.
- This project implemented Clean Architecture and SOLID design principles to achieve segregation.

MIMISushi | *JavaScript, HTML, CSS, Vite, AOS.js* June 2024
- Developed and deployed a responsive, mobile-friendly online sushi ordering website "MIMISushi" utilizing **JavaScript**, **HTML**, **CSS**, and **Vite**.
- Implemented an appealing user interface with a minimalist design to showcase the brand, popular sushi dishes, and interactive menu, further enhancing the user experience through the incorporation of smooth and subtle animations by **AOS.js**.

Link-Up | *JavaScript, HTML, CSS* January 2023
- Developed a web application "Link-Up" during a 36-hour SheHacks +7 hackathon that aggregated participants' personal calendar data to identify mutually available time slots for event scheduling.
- Leveraged **HTML**, **CSS**, and **JavaScript** to build the responsive web interface, which allowed users to select a convenient meeting time and automatically generate a shareable calendar invite.
- Employed client-side scripting with **JavaScript** to fetch and process calendar data, and utilized DOM manipulation to render the available time slots on the webpage dynamically.

SKILLS

Programming Languages: Python, JavaScript/TypeScript, HTML, CSS, Java, R, SQL, LaTeX
Technologies/Frameworks: React, Vue.js, Next.js, Node.js, RESTful API, NumPy, Pandas, Seaborn, Flask, PyTorch, Unity
Developer Tools: Visual Studio Code, PyCharm, Intelli J, Git, GitHub, RStudio
Concepts: Object-Oriented Programming, Algorithms and Data Structures, Design Patterns, Operating System, Web Application, Machine Learning and AI, Neural Networks, API, Database, EDA, Data Visualization...
Languages: English, Mandarin, French(A1 Level)