Weitao Wu

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Skills

Java, C / C++, C#, Python, Machine Learning (**Pandas**), React.js, JavaScript, DevOps (**Ubuntu, Docker**), SQL / NOSQL, Spring Boot

Education

Bachelor of Science in Software Engineering September 2018 – April 2023
Schulich School of Engineering, University of Calgary
- GPA: 3.3/4.0

Relevant coursework: Database System Management, Digital Signals, Embedded System, Operating System, Software Design, Computer Networks, Software Architecture, Machine Learning, Web-Based System, Distributed System, Software Project Management

Professional Experience

Web Developer March 2024 - Present
Canada Keli New Technology Ltd.
- Maintained and built new features for web server
- Summarized and analyzed the production data using **Machine Learning**, and generated the organized reports

Personal Designed Website
- Implemented the front-end websites for companies using **React.js**
  https://parksidecs.vercel.app/
  https://aeon-oil.vercel.app/

Low Magnetic Field MRI Machine Design – Capstone Project September 2022 – April 2023
- Guided a team of 4 members including electrical and software engineering students as the software leader to develop a low magnetic field MRI machine design
- Adopted **COMSOL Multiphysics** to build the simulations of magnets, starting with a 1-magnet design and progressing to 24-36-48 concentric multiple rings design
- Utilized **Python** to simulate the rotations and translations of magnets and increased the magnetic field by 30%
- Built **Python** code to simulate new magnets, specify their location, and magnetic properties for new magnets

Technical Experience

E-Commerce Platform Project January 2023 – April 2023
- Collaborated with 4 other teammates to develop a full-stack E-Commerce platform using a **distributed system** to increase the fault tolerance and ability of dealing with high concurrency
- Implemented the front-web user interface and developed web page rendering using **JavaScript React** techniques

- Implemented the back end using **Node.js** and created a database using **SQLite**, utilized the self-designed **consistency** algorithm to solve inconsistent problems across multiple servers
- Created stable communication between front-end and back-end using **Socket.io**

Multi-User Drawing Website Project September 2022 – December 2022

- Managed the team of 6 in designing and building a website that allows multiple users to draw simultaneously
- Developed the front-end of the web user interface using **JavaScript**, **Node.js**, **CSS**, and **HTML**
- Built a database using **My SQL** that can save information for thousands of users and their drawing status
- Eestablished the functionality to allow multiple users to join in the same room with **socket.io** to guarantee stable communication

Machine Learning Project September 2022 – December 2022

- Adopted Machine Learning techniques of **Python** to build 7 types of models: Sequential model, SVM models, Linear Regression, Logistic Regression, Naïve Bayes, Decision Tree, Random Forest
- Employed a Python script using **Scikit-learn** and **Pandas** to filter and gather information from **100000 lines** of Covid-19 patients' data
- Extracted data on Covid-19 and predicted the number of upcoming cases, improved the model to achieve an accuracy around **97% accuracy**

Library System Website Project January 2022 – May 2022

- Collaborated with 2 teammates to design a **full stack recruiting** website to help students to find the appropriate jobs
- Constructed the front-end web page using **JavaScript**, **CSS**, and **HTML** and built the back-end server with **JAVA** language
- Developed the structure using **SpringBoot** framework and the database using **My SQL**

Additional Experience

JusFruit July 2022 – September 2022

314A 10 St NW, Calgary, AB T2N 1V8

- Improved communication skills with customers and provide high-quality service
- Built strong relationships and collaborated with colleagues to achieve great teamwork
- Adapted to work environment and handle work-related stress effectively