Bruce Wang

Software Engineering University of Waterloo

EXPERIENCE

TAMVOES HEALTH IP INC | Full Stack Developer
Sept 2020 – Dec 2020 | Waterloo, ON

- Built a **Flask** backend server for Medical Search with an ML search engine integration.
- Implemented a new feature of deleting/recovering files in Personal Data Trust page for **Pyramid** backend interacting with **Blackberry Spark**.
- Developed a medical profile frontend page using **Handlebars** and **jQuery**.
- Architected an automated API testing system with **Newman** for **Node.js**, deployed through **Docker** and **Jenkins**.

RANGLE.IO | JavaScript Software Developer
Jan 2020 – Apr 2020 | Toronto, ON

- Collaborated with Rangle Fast Retailing team to deliver the best solutions for **Uniqlo's e-Commerce website**, withstanding **400,000 costumer visits** per day.
- Refactored payment system which reduced loading time by **60%**
- Updated CMS components with design system and latest Typescript 3.9.0 features, resulting **120** related bug tickets closed.
- Built using **React/Redux/Saga/Typescript** and **Jest/Cypress** for automation.

CONRAD SCHOOL OF ENTREPRENEURSHIP AND BUSINESS |
Entrepreneur in Training & Software Engineer
May 2019 – Aug 2019 | Waterloo, ON

- Demonstrated leadership in **Pfera Inc** and **Huckleberry Inc** by contributing to product development and data analysis.
- Created new calendar features for a Horse Breeding System, using **Vue**, **PHP/Laravel** for web, **Ionic 4** for mobile with a **MySQL** database.
- Designed and developed a Price-Guessing web app, using **React** , **Node.js** with a **MySQL** database, deployed with **AWS (S3, EC2, RDS)**.
- Built a content-based filtering real estate Recommendation Engine with **Python**, using **Scikit-Learn**, **Pandas** and **Numpy**.

PROJECTS

MYDENTIST | Contract Product for a local dentist
May 2020 – Aug 2020

- A management application allowing dentists and patients to correspond through a secure text messaging system and treatment tracking system.
- Consisting of 2 platforms: a **React** web admin page utilized by dental clinics and a **React Native** mobile app utilized by patients
- Applied **serverless** architecture with **Cloud Functions for Firebase** to the product, interacting with data in **Cloud Firestore**.

HOUSEBERRY | Full Stack Web Project
Jul 2019

- A game for house buyers to practice their house evaluation ability, based on provided house images and information.
- Built with **React**, interacting with back-end through **Axios**.
- Set up Back-end with **Node.js**, connecting to **MySQL** database using **Express**.
- Deployed with **AWS**: **S3**, **EC2** and **RDS**.

CONTACTS

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EDUCATION

UNIVERSITY OF WATERLOO
Software Engineering
Expected Apr 2023 | Waterloo, ON

SKILLS

LANGUAGES

-JavaScript | TypeScript | Python
-C | C++ | Java | PHP

DEV TOOLS

Web:
-React | Redux | Vue | Angular
-Handlebars | Bootstrap | jQuery
-Node.js | Flask | Django | Pyramid
-Laravel

Database:
-MySQL | MongoDB | PostgreSQL

DevOps:
-Docker | AWS | Firebase
-Microsoft Azure | Vercel | MedStack

Automation:
-Jest | Mocha | Newman

Mobile:
-React Native | Ionic 4 | Android

Machine Learning:
-PyTorch | TensorFlow
-Numpy | Pandas | Scikit-Learn
Others:
-Apache Kafka | MATLAB | Octave
-Linux | MIPS Assembly Language

ASSOCIATION

KWCSSA:
-Sept 2018 - present

COURSES

-Object-Oriented Programming
-Algorithms
-Software Design Principles
-Abstract Data Structure
-User Interfaces