William Wang . Jarvis Consulting

Hello! I am a recent graduate from the University of Toronto with a major in Computer Science. I have always been passionate about the technology industry, where breaking new ground, growth, and making creative ideas come true happens every day. I have been able to carry on my passion in the form of creating various apps, and join in multiple developing clubs where I could utilize my critical thinking, leadership, and algorithmic skills which I gained during my undergraduate studies. During my leisure, I enjoy traveling, hiking, and volunteering at local high schools as a teaching assistant or participate in events that are dedicated to helping international students to have a smooth transition from high school into University in a foreign country. By doing this not only can I help others but also develop my communication and interpersonal skills. This is one of the most valued experiences during my study at the University of Toronto.

Skills

Proficient: Java 8, Python, Bash, SQL, Git, Agile/Scrum

Competent: HTML, CSS, XML, C++, JavaScript, jQuery, Eclipse, IntelliJ, Pycharm, LaTeX

Familiar: RESTful API, React, UI design knowledge, Assembly, R, Unity

Development Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_william

- **Cluster Monitor**: Built a Cluster Monitor Agent which is an internal tool that collects the hardware information of each server and monitors resource usage, such as CPU model, memory size, current CPU/memory/disk IO usages in real time. The program is scheduled by Linux crontab every minute, and then insert collected data into a PostgreSQL database provisioned using docker. Wrote some SQL queries to analyze the Linux cluster usage data to help with hardware resource planning and improvement.
- **Core Java Apps**: Built Grep application using Java that is used to find text pattern in any given file of a directory and then write lines containing a given pattern into a result file. The application takes regex format pattern and path of a given directory with an output file to store the result. It can be used easily to fetch any information that user need in a faster and efficient manner. I also developed another application that connects to a PostgreSQL database using JDBC. With database containing multiple tables to simulate a simple market model between customers and salesmen, with customers having multiple orders including some merchandise. This app will help to query the information of customer's orders based on given order_id and/or other details of the order.
- **SpringBoot App**: Not started
- **Cloud & DevOps**: Not started
- **Hadoop**: Not started
- **Spark/Scala**: Not started

Professional Experiences

Software Developer, Jarvis, Toronto (2020-Present): In Jarvis, My primary focus is to develop various core big data technology projects that include Java, Cloud, DevOps, Hadoop and Spark. I am also responsible for performing the duties of Scrum master in Agile-based team projects to clear obstacles, ensure team cohesion, address collaborative dynamics, and facilitate goal management.

Education & Academic Projects

University of Toronto (2014 - 2019), Honours Bachelor of Science, Computer Science

- **2D Puzzle game Salvator:** It is a 2D game developed based on Unity platform. My main contribution was to design some of the core game mechanics by applying C#. And also translated project needs on how to keep players intrigued throughout different levels by adding a story line into the game. Game is currently downloadable on itch.iohttps://killoldfang.itch.io/salvator

- **Web Application on Sharing Economy:** Designed and implemented "Dota2 - Armory" website an e-commerce website that offers an online trading platform for all Dota2 players to trade in-game items. I focused on UI implementation using CSS and framework, also created a back-end database using MongoDB. This project was debugged and tested on a free container-based cloud platform "heroku". Current website http://dota2armory.herokuapp.com/

- **Android App:** This APP is for physicians and nurses collecting patient records in hospital emergency using Java. I focused on app's algorithm mainly to rank the patients to meet physicians based on multiple factors such as injury level, arrival time to systematically lower the waiting time for each patient as much as possible.

Extracurricular Activities

- VP of Event Dept. at UT&FUN 2014 ? 2016: Planned and Lead Annual China Shanghai Fuse and Toronto Fuse. This is the Largest Welcome Workshop for new U of T students for Networking. Supervised 30 staff to manage over 500 workshops members. Supervised and helped multiple events with attendees number from 50 to 150, Such as wonderland Halloween trip, New York shopping trip, and Tutor sections for both Mathematics and Computer science.