

JEFF WANG

Computer Science Undergrad | Full Stack Developer | Software Engineer

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WORK EXPERIENCE

Web Application Developer, Co-op - Government of Canada (PSPC) Jun 2022 - Sep 2022

- Developed and optimized 4 enterprise-level web applications for the Canadian government, handling over \$945 million in transactions and annual gross using **C#, ASP.NET Core, Vue.js, TypeScript, CSS, MS SQL** and **jQuery**
- Designed and deployed a responsive GIS web map parameters menu controlling data layers and map filters
- Refactored MVC architecture, implemented business billing logic, and automated database scripting in **PHP**

Software Developer, Co-op - Rainforest Automation Inc Jan 2021 - Sep 2021

- Deployed 3 major functionalities to the company cloud web portal, driving over \$4 million in sales using **React, Redux, JavaScript, AWS, Lambda, S3, HTML** and **SASS**. Resolving over 40+ JIRA bugs in a 4-month period.
- Reduced the demand history graph's render time by 80% from 5s to 1s by implementing **Redux** caching
- Designed and developed the inactivity timeout function that automatically logs off a user after a period of time
- Implemented the pricing graph feature using **Canvas API** and optimized **JSON** history using **Redux** states
- Designed and automated frontend **E2E** testing using **Cypress** and firmware tests using **Python's Fabric** library
- Automated **REST API** performance testing to monitor cloud health using **Postman** collections and environment
- Updated, troubleshooted, and reprogrammed **UNIX** firmware using **CMD, Bash** scripts, and **XML** commands

Database Support Technician, Co-op - Prococious Technology Inc Apr 2019 - Dec 2019

- Performed cloud database setup, backups, and automated integrity testing on database backups using **C++**
- Responsible for client software setup, software updates, QA, and **Microsoft SQL Server** database migrations
- Maintained, debugged, and applied schema updates to **SQL Servers** using **SQL Server Management Studio**

PROJECT EXPERIENCE

Multiplayer Browser Game - IO Games - [GitHub](#) - [Demo](#) Nov 2020

- Architected the server-side web application's frontend and backend using **Node.js, Express.js**, and **Socket.io**
- Implemented responsive design, a group chat feature, 3 unique minigames, and automatic score tracking
- Organized client connections into unique game rooms where individual rooms can run asynchronously
- Implemented real-time communication between the client-server environment using **TCP** web sockets

iOS Application - First Bite - [GitHub](#) - [Demo](#) Jun 2018 - July 2018

- Researched and developed an **iOS** app in a team of five, which acts as a resource for individuals new to parenthood and helps guide their newborn's dietary needs using **Swift, CocoaPods, XCode, MAC**, and **iOS**
- Programed the dietary history log feature, time tracking feature, and graphical statistics using **ChartsRealm**
- Implemented persistent storage and **Cloud DB** using **Google Firebase**, syncing offline statistics and history
- Focused on agile methodology, performed weekly sprints, meetings and ensured regular deliverable

Python/ SQLite Database - Library Application - [GitHub](#) May 2020

- Developed an application for Vancouver libraries and E/R diagram using **Python, SQLite, WSL**, and **Linux**

EDUCATION

B.Sc. Computing Science - Simon Fraser University, Canada Expected: Dec 2022

- Database II, Networking II, Data Mining, Artificial Intelligence, Operating Systems, Data Structures & Algorithms