




JEFF WANG.

SRE // Full Stack Developer // Software Engineer // Computer Science

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WORK EXPERIENCE

Site Reliability Developer - Royal Bank of Canada Jan 2023 - Present

- Responsible for ansible automation, implementing SLOs and incident management.

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

- Developed and optimized 4 enterprise-level web applications for federal departments, handling over \$945 million in transactions and annual gross using **Vue.js, TypeScript, C#, ASP.NET, MS SQL, CSS** 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.js, Redux, JavaScript, AWS, Lambda, S3, HTML** and **SASS**. Resolving over 40+ JIRA bugs in 4 month
- Reduced the demand history graph's render time by 80% from 5s to 1s by implementing Redux caching
- Designed and developed an 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 tests 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 - ClearDent (Precocious 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](#) // [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](#) // [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 feature deliverable

EDUCATION

B.Sc. Computer Science - Simon Fraser University, Canada // Dean's Honour Roll Dec 2022

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