

RICHARD XIE

COMPUTER SCIENCE STUDENT

TECHNOLOGIES

Languages: C, C++, C#, Python, Scheme, PL/SQL, SQL, Javascript, MATLAB

Web Technologies: HTML5, CSS3, NodeJS, MongoDB, SQL, Angular, React

Database Technologies: PLSQL, MYSQL, SQL, Toad for Oracle

Platforms: iOS, Windows, Web, Sharepoint

SKILLS

Object-Oriented/Functional

Database Administration

Application Development

Web Development

iOS App Development

INTERESTS

Machine Learning

Data Science and Analytics

Public Speaking

EXTRA CURRICULAR ACTIVITIES

STUDENT AMBASSADOR

Microsoft

SOCIAL MEDIA MANAGER

StarterHacks

MEMBER

UW Data Science Club

EXTERNAL RELATIONS

Project Pulse

CONTACT



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PROFESSIONAL EXPERIENCE

APPLICATION DEVELOPER

Ontario Ministry of Attorney General | May 2018 - August 2018

- Optimized query efficiency by over 300% by remodelling previous SQL queries to PLSQL queries for the data warehouse migration
- Programmed a "LocationCheck" feature by integrating Google Maps' Geolocation to validate addresses used by over 600 clients
- Developed dozens of report generator applications with SQL stored procedures, Windows forms, and complete QA testing

WEB DEVELOPER

Canadian Creative Education Centre | May 2017 - August 2017

- Reduced client set-up time 30 minutes/client by developing a user account database using MongoDB with personalized dashboards
- Developed website mockups using HTML5, CSS3, and JavaScript to ensure client satisfaction prior to project development phase
- Improved UI by updating toolbar, modifying layout and adding multi-media features using Django CMS

REAL ESTATE SALESPERSON

RE/MAX Central Realty Group | August 2018 - ongoing

- Increased client satisfaction by creating an algorithm with database analysis to inform clients on optimal market conditions and suitable properties
- Conducted open houses and property tours in the GTA familiarizing clients and exemplifying benefits offered by the area

PROJECTS

RYSE (LINKEDIN FOR INMATES)

PennApps 2018

- Engineered a simple ranking algorithm that conducts risk analysis and provides classification on prisoners for employers to see
- Designed separate UI for employers, prisoners, and supporters while preserving business logic
- Constructed a database using MongoDB that stores user's login info and personal details

HEYBUD

HackPrinceton 2018

- Incorporated Google Maps' API in web application to create an interactive map of the interior of buildings to improve mobility for physically disabled students

MOODIFY

StarterHacks 2018

- Utilized IBM Watson's Machine Learning API to detect the user's mood based on text input, and automatically offers assistance
- Designed an iOS mobile interface that retains user input and provides mood analytics based on history

EDUCATION

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE

University of Waterloo | 2017 - 2022

David R. Cheriton School of Computer Science

Recipient of President's Scholarship of Distinction