

Alexander Bhasin

Full Stack Software Developer

EXPERIENCE

Bank of Canada

Web Developer Co-op

September 2022 – December 2022

PHP JavaScript HTML/CSS WordPress

- Contributed to improving the bank's fleet of websites through the use of PHP and JavaScript
- Championed the development of new accessibility features that improved overall clarity
- Ensured proper regression testing through the development of test cases and documentation
- Increased the flexibility of the development process by collaborating in an agile team

Paphus Solutions

Software Developer Co-op

September 2020 – December 2020

Python Java Objective-C Android iOS

- Produced NLP and image classification analytics in Python using TensorFlow
- Modified user interfaces for Android applications in Java to improve the user experience
- Migrated 4000+ lines of code written in Java to Objective-C to maintain iOS applications
- Integrated multiple APIs into applications to improve the accuracy of information

PROJECTS

Microsoft AI for Accessibility Challenge

Team Leader

January 2022 - Present

Svelte Swift Java Android iOS

- Designed a web/mobile application that uses AI to aid individuals with anxiety disorders
- Built a prototype for the application using the OpenAI API and Svelte

Fitness Centre Monitoring Software

Developer

September 2022 - December 2022

C QNX JavaScript

- Developed a server in C using QNX that keeps track of relevant information concurrently
- Evaluated the data produced by the server through the creation of a statistics page

Accessibility Web Applications

Lead Developer

September 2022 - Present

JavaScript HTML/CSS

- Designed a **development tool** that finds colours that meet minimum contrast requirements
- Built a **chrome extension** that enables the emulation of colourblind filters

OASIS Medical Device Simulator

Developer

March 2022 - April 2022

C++ Qt SQLite

- Programmed a simulator for a medical therapy device in C++, making use of the Qt framework
- Implemented multiple design patterns into the core design of the simulation

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EDUCATION

Carleton University

Sept 2018 - Apr 2023 (expected)

Bachelor of Computer Science

Honours, Cyber Security Stream

CGPA 11.42 / 12.00 (A)

SKILLS

Languages

Java Python
C C++
JavaScript TypeScript
PHP

Technologies

Node.js Express
Svelte Qt
MongoDB MySQL
Linux QNX Neutrino
L^AT_EX

DevOps

Git SVN
Jira Docker
VS Code

Concepts

Object Oriented Programming
Algorithms and Data Structures
Agile Development/Modeling
W3C Accessibility Standards
Cryptography
RESTful Design