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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alexbhasin.ca
github.com/alexbhas
alex@alexbhasin.ca
613-851-8515

EDUCATION

Carleton University

Sept 2018 - Apr 2023 (expected)
Bachelor of Computer Science
Honours, Cyber Security Stream
CGPA 11.42 / 12.00 (A)

TECHNOLOGIES

Languages

Java	Python
C	C++
JavaScript	TypeScript
PHP	

Frameworks

Node.js	Express
jQuery	Svelte
Qt	

Tools

Git	SVN
MongoDB	MySQL
VS Code	LaTeX
Linux	QNX Neutrino
Jira	Docker

Concepts

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