Alexander Bhasin

Software Developer

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Education

Carleton University

Sept 2018 - April 2023

Bachelor of Computer Science, Honours Internet Security Stream, GPA 11.44/12.00

Ottawa, Ontario

Experience

Web Developer Co-op

PHP

JavaScript

HTML/CSS

WordPress

Sept 2022 - Dec 2022

Bank of Canada

Ottawa, Ontario

- Contributed to improving the bank's fleet of 6+ websites using various technologies
- · Championed the development of new accessibility features, improving the overall clarity of search functionality
- · Ensured proper regression testing through the development of test cases and documentation
- Increased the flexibility of the development process by 25% through collaboration in an agile team

Software Developer Co-op

Python

lava

Objective-C

Android

iOS

Sept 2020 - Dec 2020

Paphus Solutions

Ottawa, Ontario

- Added NLP functionality to classification analytics in TensorFlow, increasing the capabilities of the analytics by 50%
- Modified user interfaces for Android applications, to provide a seamless user experience
- Migrated 4000+ lines of code written in Java to Objective-C to maintain iOS applications
- Integrated multiple APIs across various applications, resulting in an improved accuracy of calculated information

Projects

Accessibility Applications | JavaScript HTML/CSS

Python

- Designed a development tool that finds colours that meet the minimum contrast requirements
- Developed a web scraper that evaluates the accessibility metrics of different websites
- Built a Python application that allows the user to upload PDF/docx files and have them converted into TTS

Microsoft AI for Accessibility Project | Svelte | Swift | Java



- Designed a web/mobile aplication that uses AI to aid individuals with various mental health disorders
- Built a prototype for the application using the OpenAl API and Svelte

Al Comedy Talkabot

Python

- Integrated TorToiSe TTS with GPT models to deliver a talking bot that emulates a famous comedian
- Built a tool that batch converts MP3 files to the required WAV file format for TorToiSe

Fitness Centre Monitoring Software

ONX

JavaScript

HTML/CSS

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

OASIS Medical Device Simulator





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, ensuring an accurate replication

Skills

Languages: Java, Python, C, C++, JavaScript, TypeScript, PHP, HTML/CSS

Technologies: Node.js, Express, Svelte, Qt, MySQL, MongoDB, WordPress, Linux, QNX Neutrino

Developer Tools: Git CLI, SVN, GPT, Jira, Docker, VS Code, LATEX

Concepts: Artificial Intelligence, Object Oriented Programming, Algorithms and Data Structures, Agile

Development/Modeling, W3C Accessibility Standards, Cryptography, RESTful Design