

Alexander Bhasin

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Education

Carleton University

Sept 2018 – April 2023

BS in Computer Science, Honours Cybersecurity Stream, High Distinction GPA 11.43/12.00

Experience

Associate Cloud Operations Engineer | Azure Docker Kubernetes

July 2023 – Present

Sitecore

Gatineau, Quebec

- Assisted with the deployment and management of web applications on Sitecore's advanced cloud platform
- Efficiently diagnosed and mitigated incidents, from DDOS attacks to scaling infrastructure
- Engaged with cross-functional teams to strengthen system reliability and performance
- Utilized OpsGenie, SearchStax, Grafana, and ServiceNow in daily operations and incident management

Full Stack Developer | Svelte TailwindCSS Python MongoDB

Jan 2023 – Present

Daitoku

Ottawa, Ontario

- Developed and maintained comprehensive web applications, improving overall functionality and responsiveness
- Directly interfaced with clients to tailor solutions, resulting in a 30% enhancement in user experience
- Contributed to cloud migration projects, reducing operating costs and increasing system performance
- Aided in integrating global accessibility standards, promoting inclusive usability and broadening user bases

Web Developer Co-op | PHP JavaScript HTML/CSS WordPress

Sept 2022 – Dec 2022

Bank of Canada

Ottawa, Ontario

- Championed the development of new accessibility features, enhancing the general usability of 6+ websites
- Ensured proper regression testing through the development of thorough test cases and documentation

Software Developer Co-op | Python Java 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%
- Migrated 4000+ lines of code written in Java to Objective-C to maintain iOS and Android mobile applications

Open Source / Projects

Web Applications | Svelte TypeScript Python HTML/CSS MongoDB

- Created a **full stack application** that allows users to map songs to different emotions and share them online
- Designed a **development tool** to determine colours that meet the minimum contrast ratio requirements
- Developed a **web scraper** that evaluates the accessibility metrics of different websites
- Participated in the Microsoft AI for Accessibility competition, and designed a prototype using the OpenAI API

Software Projects | Python C C++ QNX Qt

- Developed **embedded software** for a fitness centre using QNX, equipped with a front-end for statistical analysis
- Integrated TorToiSe TTS with GPT models to deliver a **talking bot** that emulates a famous comedian
- Built a **Python application** that allows the user to upload PDF/docx files and have them converted into TTS
- Programmed a simulator for a medical therapy device in C++, making use of the Qt framework

Skills

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

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

Developer Tools: Git, SVN, OpenAI/GPT, Jira, Docker, Kubernetes, Azure, AWS, VS Code, \LaTeX

Concepts: Artificial Intelligence, Object Oriented Programming, Algorithms and Data Structures, Agile Development/Modeling, CI/CD, W3C Accessibility Standards, Cryptography, RESTful Design, Cloud Native