

Alexander Bhasin

613-851-8515 | alex@alexbhasin.ca | alexbhasin.ca | github.com/alexbhas | linkedin.com/in/alexander-bhasin/

Education

Carleton University

BS in Computer Science, Honours Cybersecurity Stream, 3.9 GPA (11.43/12.00)

Sept 2018 – April 2023

Ottawa, Ontario

Experience

Associate Cloud Operations Engineer

Sitecore

July 2023 – Present

Ottawa, Ontario

- Assisted with the deployment and management of **Azure** web applications on Sitecore's SaaS cloud platform
- Efficiently diagnosed and mitigated **200+** incidents, from DDoS attacks to scaling infrastructure
- Managed and scaled microservices using **Docker** and **Kubernetes**, ensuring high availability and performance
- Presented **Generative AI** use cases to **700+** industry professionals, promoting Microsoft's AI Hackathon

Integrated Full Stack & Mobile Engineer

Daitoku

Jan 2023 – Present

Ottawa, Ontario

- Developed web and mobile applications with scalability in mind, using **Svelte**, **TailwindCSS**, **Express**, and **Swift**
- Tailored headless CMS solutions for clients, boosting platform flexibility by **50%** and enhancing project adaptability
- Deployed **MySQL** and **MongoDB** database solutions to manage and store data across different applications
- Aided in integrating global accessibility standards, promoting inclusive usability and broadening user bases

Web Developer Co-op

Bank of Canada

Sept 2022 – Dec 2022

Ottawa, Ontario

- Improved functionality on a custom **WordPress** deployment, further enhancing content-based web applications
- Championed the development of new accessibility features, enhancing the general usability of **6+** websites
- Ensured proper regression testing through the development of test cases using **Cucumber** and **PHPUnit**

Software Developer Co-op

Paphus Solutions

Sept 2020 – Dec 2020

Ottawa, Ontario

- Added NLP functionality to classification analytics in **TensorFlow**, increasing the capabilities of analytics by **100%**
- Migrated 4000+ lines of code written in **Java** to **Objective-C** to maintain **iOS** and **Android** mobile applications

Open Source / Projects

Web Applications

- Made an aesthetic **language learning tool** using **SvelteKit**, and deployed it to **Vercel**
- Created a music-based **full stack application** with a **RESTful API** back-end written in **Flask** and a **Svelte** front-end
- Designed a **development tool** to determine colours that meet the **WCAG** contrast ratio requirements
- Developed a **web scraper** in **Python** 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

- Developed realtime **embedded software** for a fitness centre using **QNX Neutrino** and **C**
- Integrated TorToiSe TTS with GPT models to deliver a comedic **talking bot**
- 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

Technologies: Node.js, Express, Flask, Svelte, React, HTML/CSS, TailwindCSS, SCSS, Qt, SQL, MongoDB, Linux, QNX

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

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