Alexander Bhasin

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Education

Carleton University   Sept 2018 – April 2023
BS in Computer Science, Honours Cybersecurity Stream, **3.9** GPA (11.43/12.00)   Ottawa, Ontario

Experience

Associate Cloud Operations Engineer   July 2023 – Present
Sitecore   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

Full Stack & Mobile Developer   Jan 2023 – Present
Daitoku   Ottawa, Ontario

- Developed scalable web and mobile applications, through the use of **Svelte**, **Express**, **Swift**, and **Kotlin**
- Tailored headless **CMS** solutions for clients, boosting platform flexibility by **50%** and enhancing project adaptability
- Established **PostgreSQL** and **MongoDB** database solutions to manage and store data across different applications
- Deployed multiple applications to **AWS**, utilizing **S3** buckets and **CloudFront** for optimized cloud-based solutions

Web Developer Co-op   Sept 2022 – Dec 2022
Bank of Canada   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   Sept 2020 – Dec 2020
Paphus Solutions   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 that generates audio output
- 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, Swift
Technologies: Node.js, Express, Flask, Svelte, React, HTML/CSS, TailwindCSS, SCSS, Qt, SQL Server, MongoDB, Linux, QNX
Developer Tools: Git, SVN, OpenAI API/GPT, Jira, Trello, 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