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　　　　　　　　　　　　　　　　　　　　　　　　　　　Gatineau, Quebec
- Assisted with the deployment and management of **Azure** web applications on Sitecore's cloud platform
- Efficiently diagnosed and mitigated 100+ incidents, from DDoS attacks to scaling infrastructure
- Utilized **OpsGenie**, **SearchStax**, **Grafana**, and **ServiceNow** in daily operations and incident management
- Presented **Generative AI** use cases to 700+ industry professionals, promoting Microsoft's AI Hackathon

Full Stack Developer　　　　　　　　　　　　　　　　　　　　　Jan 2023 – Present
Daitoku　　　　　　　　　　　　　　　　　　　　　　　　　　　Ottawa, Ontario
- Developed comprehensive web and mobile applications, using **Svelte**, **TailwindCSS**, **Swift**, and **ExpressJS**
- Consulted with clients to tailor headless CMS solutions, enhancing the user experience of multiple projects
- 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　　　　　　　　　　　　　　　　　　　　　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 50%
- Migrated 4000+ lines of code written in **Java** to **Objective-C** to maintain **iOS** and **Android** mobile applications

Open Source / Projects

Web Applications
- Created a music-based full stack application with a **RESTful API** 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, HTML/CSS
Technologies: Node.js, Express, Flask, Svelte, Vue, TailwindCSS, SCSS, Qt, MySQL, MongoDB, 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