

# Alexander Bhasin

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## Experience

### Full Stack Developer

January 2025 – Present

**Daitoku Co.**

Ottawa, Canada

- Developed cross-platform mobile apps in **Swift**, **Kotlin**, and **React Native**, ensuring parity across devices
- Built dynamic web interfaces with **Svelte**, reducing frontend bundle sizes by up to **40%** over legacy frameworks
- Maintained **PostgreSQL** and **MongoDB** databases, optimizing data models for scalability and performance
- Managed deployments on **AWS**, using **S3**, **CloudFront**, and **EC2** to serve content with **99.9%** uptime

### Cloud Engineer

July 2023 – April 2025

**Sitecore**

Ottawa, Canada

- Saved **\$20,000** in monthly overhead by writing automation scripts to streamline customer-facing operations
- Authored advanced **KQL** queries to mitigate DDoS attacks on **Azure** websites handling **30M+** monthly requests
- Used **Selenium** and **Azure CLI** to automate incident reports with screenshots and diagnostics for faster resolution
- Presented **Generative AI** use cases to **200+** industry professionals, showcasing integration with cloud monitoring

### Web Developer Co-op

Sept 2022 – Dec 2022

**Bank of Canada**

Ottawa, Canada

- Enhanced custom **WordPress** deployments, improving usability for over **1,000,000** monthly visitors
- Performed accessibility audits with cross-functional teams, resolving **50+ WCAG** compliance issues
- Ensured proper regression testing through the development of test cases using **Cucumber** and **PHPUnit**
- Participated in sprint planning, stand-ups, and retrospectives within an **Agile** team, improving team workflow

### Software Developer Co-op

Sept 2020 – Dec 2020

**Paphus Solutions**

Ottawa, Canada

- Contributed to the open source AI platform BotLibre, through the deployment of new chatbot functionalities
- Added **NLP** functionality to classification analytics in **TensorFlow**, increasing the capabilities of analytics by **100%**
- Upgraded an **Apache Tomcat** server to ensure seamless AI feature deployment, increasing project scalability
- Migrated **4000+** lines of code written in **Java** to **Objective-C**, to maintain **Android** and **iOS** mobile applications

## Projects

- **Kana DT**, a learning tool built with **SvelteKit** designed to enhance language acquisition through engaging **UI/UX**
- **frOCR**, an application that extracts text from images and translates it using Tesseract OCR and DeepL
- **Red Pyramid**, a dungeon crawling role-playing game built in **Kotlin**, using LWJGL to render simple 3D graphics
- **Larry David Talkabot**, a program that integrates TorToiSeTTS with **OpenAI** models to deliver a comedic bot
- **RFID Collision Avoidance**, a simulation that models the work of an RFID anti-collision algorithms research paper

## Education

**Carleton University**

Sept 2018 – April 2023

Bachelor of Computer Science, Honours Cybersecurity Stream, **3.9/4** GPA

Ottawa, Ontario

## Skills

**Languages:** Python, Java, Kotlin, C, C++, JavaScript, TypeScript, PHP, Swift, SQL, HTML, CSS, Lua

**Technologies:** Node.js, Express, React, Svelte, MongoDB, PostgreSQL, Android, iOS, Linux

**DevOps:** AWS, Azure, Docker, Kubernetes, CI/CD, Prometheus, Grafana

**Developer Tools:** Git, VS Code, Xcode, Postman, Jira,  $\LaTeX$

**Foundations:** Artificial Intelligence/Machine Learning, Object-Oriented Programming, Algorithms and Data Structures, Agile Development, CI/CD, W3C Accessibility Standards, Systems Security, RESTful Design, UI/UX design