

# Ali Khreis

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## 🎓 EDUCATION

**Master of Engineering Electrical and Computer Engineering,**

01/2025 – present | Ottawa, Canada

*University of Ottawa* 🔗

- Pursuing a **Concentration in Applied Artificial Intelligence (MEng)**

**BASc in Software Engineering (CO-OP),** *University of Ottawa* 🔗

09/2020 – 12/2024 | Ottawa, Canada

- Pursued an option in Engineering Management and Entrepreneurship.

**Relevant Courses:** Data Structures and Algorithms, Discrete Mathematics, Computer Architecture, Operating Systems, Analysis and Design of UI, Technology Entrepreneurship, Intro. to Product Development and Management.

## 🏢 PROFESSIONAL EXPERIENCE

**GIS Data Developer,** *Agriculture and Agri-Food Canada* 🔗

05/2024 – 11/2024 | Ottawa, Canada

- Built and maintained **GIS databases**, automated data processing, and developed web-based tools for better accessibility.
- Conducted spatial analysis, created maps, and integrated data to support decision-making.
- Enhanced data accuracy and efficiency through **ArcGIS/Survey123** and quality checks.

**Software Developer,** *Canadian Internet Registration Authority (CIRA)* 🔗

05/2023 – 09/2023 | Ottawa, Canada

- Developed an embeddable IPT tool, catalyzing a **20% user growth**, using **React (TypeScript), Python & SQL**.
- Collaborated to improve data collection, boosting internet performance data from millions of Canadian users.
- Integrated IPT tool into a **security browser extension**, expanding its usability and reach.
- Demonstrated **Agile principles** by proposing ideas and daily updates during IPT tool development.

**Full Stack Software Developer,** *Fisheries and Oceans Canada (DFO)* 🔗

09/2022 – 04/2023 | Ottawa, Canada

- Developed full-stack applications for multiple clients, handling **(HTML, CSS, JS, TL)** and **(Java, SQL, Spring)**.
- Built multiple projects using **Spring-based** web applications with **Oracle** database.
- Completed **50%** of designing **client-side and server-side architecture**.
- Outlined software engineering activities, including OOA with UML, and applied frameworks and APIs.

**IT Internal Auditor,** *Employment Social Development Canada (ESDC)* 🔗

01/2022 – 08/2022 | Gatineau, Canada

- Built **50%** of **Power-BI** with all gathered data to present to senior management.
- Used **TeamMate** auditing software to store all sensitive information and recent documents.
- Navigated the department's cyber-security policies and controls **(ITSG-33, Nist)** related to various audits.

## 🏠 VOLUNTEER

**Software Engineering Student Association, VP of Development** 🔗

10/2022 – 10/2024 | Ottawa, Canada

- Developing the association's website.

**Hack The Hill Hackathon (HTH), Marketing Manager**

06/2023 – 12/2023 | Ottawa, Canada

- Created and oversaw content and campaigns for marketing objectives.

## 📁 PROJECTS

**Fitness Centre Booking App,** *(Java, Andoid Studio)* 🔗

- Designed Members enroll, instructors schedule, and admins manage users and classes. Members can view class details.

**SyllabusSync,** *(React, ReactJS, JavaScript, CSS, HTML, SQL)* 🔗

- SyllabusSync is a AI-powered academic companion, designed to transform the way you manage your academic life.

## 🧠 SKILLS

**Programming Languages** — Java, Python, C, C#, Swift, JavaScript, TypeScript, CSS, jQuery | **Web development** —

HTML, CSS, MaterialUI, React, Redux | **Operating Systems** — Linux {Ubuntu, Debian}, MacOS, Windows |

**Programming Tools** — Visual Studio, JIRA, Confluence, CI/CD, Git, Github, GitLab, PostgreSQL, Firebase, GitKraken |

**Testing** — PyTest, Selenium