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

SyllabusSync, (*React, ReactJS, JavaScript, CSS, HTML, SQL*) ✑
- SyllabusSync is a AI-powered academic companion, designed to transform the way you manage your academic life.

Fitness Centre Booking App, (*Java, Andoid Studio*) ✑
- Designed Members enroll, instructors schedule, and admins manage users and classes. Members can view class details.

🎧 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