

Ali Khreis

Software Engineer | MEng. Candidate

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PROFILE

Passionate software engineer with expertise in full-stack development, data processing, and AI applications. Skilled in developing scalable solutions using technologies like React, Python, and Java, with a strong focus on problem-solving and innovation. Currently dedicated to leveraging AI to develop intelligent systems that optimize processes and drive impactful solutions.

PROFESSIONAL EXPERIENCE

- GIS Data Developer (CO-OP)**, Agriculture and Agri-Food Canada (AAFC) ⓘ 05/2024 – 11/2024 | Ottawa, CA
- **Automated** GIS data processing with **Python, SQL, and JavaScript**, improving efficiency by **35%**.
 - **Developed** web-based mapping tools using **JavaScript and React** increasing application usage by **40% user engagement**.
 - **Enhanced** data accuracy with **ArcGIS/Survey123** and **Python automation**.
 - **Integrated** complex geospatial data with **Python and SQL**, driving a **25% growth** in data-driven decisions.
- Software Developer (CO-OP)**, Canadian Internet Registration Authority (CIRA) ⓘ 05/2023 – 09/2023 | Ottawa, CA
- **Built** an embeddable IPT tool with **React (TypeScript), Python & SQL**, driving **35% user growth**.
 - **Enhanced** data collection, improving internet performance insights from millions of users.
 - **Integrated** the IPT tool into a security browser extension, expanding usability and reach.
 - **Applied** Agile principles by sharing ideas and providing daily updates during development.
- Full Stack Software Developer (CO-OP)**, Fisheries and Oceans Canada (DFO) ⓘ 09/2022 – 04/2023 | Ottawa, CA
- **Developed** full-stack apps with **HTML, CSS, JavaScript, TypeScript, Java, SQL, and Spring** for multiple clients.
 - **Built** Spring-based web applications with an **Oracle database** for various projects.
 - **Designed** 40% of **server-side architecture**.
 - **Outlined** software engineering tasks using **UML, frameworks, and APIs**.
- IT Internal Auditor (CO-OP)**, Employment Social Development Canada (ESDC) ⓘ 01/2022 – 08/2022 | Gatineau, CA
- 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.

SKILLS

Programming Languages — Java, Python, C, C++, Swift, JavaScript, TypeScript, CSS, jQuery, Go, Ruby, SQL, PHP, R, Scala |

Web development — HTML, CSS, MaterialUI, React, Redux, Angular, Next.js, Tailwind, Progressive Web Apps (PWAs) |

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

Testing — PyTest, Selenium, JUnit, Postman, Jenkins, ESLint, Jest, Cypress, Apium, SoapUI, LambdaTest, BrowserStack, |

Operating Systems — MacOS, Windows, Unix, Linux {Ubuntu, Debian},

EDUCATION

- Master of Electrical and Computer Engineering**, University of Ottawa ⓘ Ottawa, CA
- **Concentration in Applied Artificial Intelligence (MEng)**
- BASc in Software Engineering (CO-OP)**, University of Ottawa ⓘ Ottawa, CA
- 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.

VOLUNTEER

- Software Engineering Student Association**, VP of Development ⓘ Ottawa, CA
- Developing the association's website.
- Hack The Hill Hackathon (HTH)**, Marketing Manager ⓘ Ottawa, CA
- 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.
- GameSite,,** (Java, TypeScript, SCSS, HTML, Shell, Dockerfile) ⓘ
- Developed a redesigned website to host various multiplayer games, enabling seamless gameplay with friends.