


Ali Khreis Software Engineer | MEng. Candidate

alikhreis12@gmail.com | Ottawa, ON, Canada | <https://www.linkedin.com/in/alikhreis/> | <https://github.com/alikhreis7> | <https://www.alikhreis.ca>


PROFILE

MEng candidate in Electrical and Computer Engineering with a concentration in Applied Artificial Intelligence, combining strong software engineering foundations with emerging expertise in machine learning, data analysis, and intelligent systems. Experienced in full-stack development, cloud integrations, and automation across government and enterprise environments. Skilled in Python, SQL, and modern ML frameworks, with hands-on exposure to supervised/unsupervised learning, neural networks, and deep learning fundamentals. Motivated to apply AI-driven problem solving to build scalable, reliable, and impactful solutions in both industry and research settings.


PROFESSIONAL EXPERIENCE


Software Developer Intern, Kinaxis  05/2025 – Present | Ottawa, CA


- **Developed** secure integrations across ServiceNow, Atlassian tools, cloud services, and APIs; supported DEV→TEST→PROD deployments.
- **Improved** access controls, reliability, and observability with global Product/Engineering/Security teams.
- **Built** integration patterns and contributed to an AI hackathon prototype using LLM copilots.

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 user engagement by **40%**.
- **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**. <https://performance.cira.ca/> 
- **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** a full-stack app using **HTML, CSS, JavaScript, TypeScript, Java, SQL, and Spring** for fisheries field teams.
- **Built** Spring-based web applications with an **Oracle database** for various projects.
- **Designed** 40% of **server-side architecture using UML diagrams**.
- **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, Lisp, Prolog |

Machine Learning & Data Science — Supervised Learning (regression, classification, regularization), Neural Networks (MLP, CNN) Unsupervised Learning (K-means, PCA, anomaly detection), Time-Series Forecasting, RL fundamentals • Data preprocessing • Model evaluation & tuning |

Software Engineering Tools — VSCode, JIRA, Confluence, CI/CD, Git, Github/GitLab, PostgreSQL, Firebase, GitKraken, Notion, AWS, Xcode, IntelliJ

Testing/Cloud & DevOps — PyTest, Selenium, JUnit/Jest, ESLint, Postman, Jenkins, API Testing (SoapUI, Apium), AWS (EC2, S3, basics of SageMaker)

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


ML Frameworks/Tools — PyTorch, TensorFlow, Keras, Scikit-learn, NumPy, Pandas, Matplotlib, Jupyter

EDUCATION

Master of Electrical and Computer Engineering, University of Ottawa  2025 – present | Ottawa, CA

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

Relevant Courses: Applied Machine Learning | Machine Vision | Deep Learning and Reinforcement Learning | Neural Networks and Fuzzy Systems

BASc in Software Engineering (CO-OP), University of Ottawa  2020 – 2024 | Ottawa, CA

- Pursued an **option in Engineering Management and Entrepreneurship**.
- Dean's list graduate (**Magna Cum Laude**)

Relevant Courses: Data Structures and Algorithms | Discrete Mathematics | Computer Architecture | Operating Systems | Analysis and Design of UI |

VOLUNTEER



Software Engineering Student Association, VP of Development  2022 – 2024 | Ottawa, CA

- Developed the association's website.

Hack The Hill Hackathon (HTH), Marketing Manager 2023 – 2024 | Ottawa, CA

- Created and oversaw content and campaigns for marketing objectives.

CERTIFICATES

AWS Essential Training for Developers  | Designing RESTful APIs  | GBA+ Certification | Advanced Reliability Security Clearance