

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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 	
<ul style="list-style-type: none">Pursued an option in Engineering Management and Entrepreneurship.Dean's list graduate (Magna Cum Laude)	2020 – 2024 Ottawa, CA
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
<ul style="list-style-type: none">Developed the association's website.	
Hack The Hill Hackathon (HTH) , Marketing Manager	
<ul style="list-style-type: none">Created and oversaw content and campaigns for marketing objectives.	2023 – 2024 Ottawa, CA

CERTIFICATES

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