

# Akram El-Gaouny

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## EDUCATION:

University of Ottawa | Ottawa, Ontario

Bachelor of Applied Science in **Software Engineering** (GPA: 9.58/10) | December 2023

**Key Courses:** Data Structures, Algorithms, Databases, Quality Assurance, Operating Systems & Graphical User Interface.

## LANGUAGES AND SKILLS:

Python, Java, JavaScript, Golang, HTML, CSS, SQL, MongoDB, Terraform, Docker, Kubernetes, Grafana, Prometheus, Splunk, Concourse, GitHub Actions, Linux, JIRA, AWS, Azure, Git/GitHub.

## EXPERIENCE:

*Ericsson:* **Software Developer** | Ottawa, Ontario | August 2023 – Present

- Contributed to the development of a control plane microservice responsible for monitoring and managing Ericsson's radio access networks (RANs).
- Designed Kubernetes Helm charts to facilitate the deployment of microservices on Virtual Distributed Units (vDUs).
- Assisted with the creation and execution of JUnit test cases to ensure the validity and reliability of cloud RAN microservices.
- Developed Netconf integration tests to verify and validate the operational state of radio access networks in conjunction with cloud RAN microservices.
- Debugged Jenkins and Spinnaker CI/CD pipelines utilized for testing, integration, and deployment of cloud RAN microservices.

*Qlik:* **Site Reliability Engineer Intern** | Ottawa, Ontario | May 2022 – August 2022

- Assisted development teams to onboard microservices to stage and production.
- Automated provisioning of infrastructure and cloud resources using Terraform.
- Debugged and investigated services with violating SLOs and decreasing error budgets.
- Collaborated in disaster recovery drills to restore MongoDB clusters.
- Created a CI/CD pipeline to verify and validate database IaC.
- Successfully presented a POC to investigate MongoDB Kubernetes operator.

*Shared Services Canada:* **Part-time Cloud Engineering Intern** | Ottawa, Ontario | Jan. 2022 – May 2022

- Developed an automated security compliance tool for verifying Azure subscriptions.
- Worked on a Continuous Integration pipeline that checks for any high-risk security misconfigurations in IaC files.

*Qlik:* **Site Reliability Engineer Intern** | Ottawa, Ontario | Sept. 2021 – Dec. 2021

- Developed a Slackbot service to allow developers to query metrics on MongoDB clusters, databases, and collections.
- Authored an SLA document describing the SLIs, SLOs, and Error Budgets of the service.
- Integrated metrics and tracing into the service using Prometheus and OpenTelemetry.
- Created a Grafana Dashboard to monitor the health of the service.

*Shared Services Canada:* **Cloud DevOps Engineer Intern** | Ottawa, Ontario | Jan. 2021 – Sept. 2021

- Worked on Infrastructure as Code (IaC) and scripting activities using AWS CloudFormation and AWS CDK.
- Developed a strong understanding and experience with essential AWS services.
- Assisted cloud architects and engineers by collecting requirements from different teams.

*Shared Services Canada:* **Junior Developer Intern** | Ottawa, Ontario | May 2020 – Jan. 2021

- Developed a website to host different playbooks that are produced by Shared Services Canada.
- Worked on an interactive on-boarding documentation to improve the onboarding experience of CO-OP students.
- Authored several playbooks to document different cloud computing concepts.

## CERTIFICATIONS:

- Amazon Web Services Cloud Practitioner** | Sept. 2022 – Sept. 2025

## PROJECTS:

- Budget Buddy (**Node JS, React, Express, MongoDB**)
- Stock Search Server (**Node JS**)
- AI Tic-Tac-Toe (**Python**)
- Service Novigrad (**Java, Android Studio**)

## AWARDS/ SCHOLARSHIPS:

- University of Ottawa Entrance Scholarship
- Dean's List | Years: 2019 – Current
- Top mark in math and computer science in grade 12.
- Honour Roll | Years: 2015 - 2019