

# Akram El-Gaouny

Third Year Software Engineering Student

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## Education:

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### Bachelor of Applied Science in Software Engineering – Management Option

*September 2019 – Current*

University of Ottawa – Ottawa, Ontario

- Third Year Standing – **CGPA: 9.63/10**
- Dean's Honor List: Fall 2019, Winter 2020, Fall 2020, Summer 2021

## Qualifications:

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### Programming Languages:

- Developed practical knowledge with **Python, Java, GO, JavaScript/Typescript, HTML, CSS, and SQL.**

### Web App Frameworks:

- Experienced working with **React, Express.js, bootstrap4, and Node.js.**

### Databases:

- Experience using **Firebase, MongoDB, and MySQL.**

### Containerization and Orchestration Tools:

- Experience using **Docker** and **Kubernetes.**

### Cloud Computing:

- Practical working knowledge with **AWS** and **Azure.**
- Experienced in building **Infrastructure as Code** applications using **AWS CDK** and **Terraform.**
- Confidence with creating **automation scripts** on Azure and AWS.

### Class Design and Object-Oriented Programming:

- Experienced in developing **UML** charts and **object-oriented** programs.
- Developed practical knowledge of design patterns to improve the quality of program.

## Work Experience:

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### Site Reliability Engineer and Developer Intern:

*September 2021 – December 2021*

**Qlik – Ottawa, Ontario**

- Developed a **MongoBot** service using GO that allows developers to conveniently obtain statistics about **MongoDB** clusters, databases, and collections from slack.
- Integrated **metrics** and **tracing** using **Prometheus** and **OpenTelemetry** respectively.
- Developed a **Grafana dashboard** to monitor the service and visualize the metrics.
- Created a **Helm Chart** for the **Kubernetes** service deployment.
- Ensured that the service is compliant with the company's **stage** and **prod** requirements.

### Junior Cloud DevOps Engineer:

*January 2021 – Current*

**Shared Services Canada – Ottawa, Ontario**

- Developing **Infrastructure as Code** applications with **AWS CDK** and **Terraform** on **AWS**.
- Created scripts to automate security compliance auditing on **Microsoft Azure** to significantly speed up and simplify auditing.
- Developed strong understanding and experience with essential **AWS and Azure Services**.
- Assisted Cloud Architects and Engineers with client requests by doing research and **collecting requirements and documentation**.

### Junior Developer and IT Analyst:

*May 2020 – January 2021*

**Shared Services Canada – Ottawa, Ontario**

- Created a **website** to host various cloud computing playbooks.
- Worked on an interactive on-boarding handbook for students to familiarize themselves with cloud computing and Infrastructure as Code concepts and tools.
- Delivered several playbooks (documentation) to explain different cloud computing concepts.

## Personal Projects:

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- Created a **full stack web application** with **React** front-end and **Node JS** back-end that allows users to create budgets and track spending. The application utilizes both **MongoDB** and **MySQL** databases.
- Developed a **Node JS REST** service that provides information of a given stock symbol.
- Created an **Artificial Intelligence** Tic-Tac-Toe game using **Python 3** and **Object-Oriented programming concepts**.
- Worked on many desktop games using **Java's Swing GUI** including obstacle avoidance games and a basic flying frisbee shooting game.
- Created an **android application** that allows users to fill out forms required to obtain an ID document such as a health card.