

MUSTAFA AL-SAKKAF

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OBJECTIVE

Software Engineering student with over a year's hands-on experience in backend and middleware development, aspiring to secure a fall internship focused on full-stack development.

EDUCATION

Bachelor of Applied Science in Software Engineering, University of Ottawa Expected Dec 2025
Relevant Coursework: Data Structures & Algorithms, Software Architecture, Requirements Elicitation, Java, Python

SKILLS

Programming Languages	Java, Python, JavaScript, CSS
Frameworks	Spring, Angular JS, Express
Tools	Kafka, PostgresDb, Docker, Linux, OpenTelemetry, Prometheus, Matplotlib

EXPERIENCE

Software Developer Solace Systems	Jan 2023 - Aug 2023 <i>Ottawa, Canada</i>
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- Introduced automated network chaos testing in **Java** messaging client, speeding up issue detection pre-deployment, expediting new feature testing, and reducing time-to-market.
- Redesigned **Jenkins CI/CD** pipelines to create an automated deployment process for Go artifacts, replacing a complex, and time-consuming deployment workflow.
- Improved integration of company middleware services with external systems such as Kafka and RabbitMQ through strategic research in a **Spring-based, Docker** environment, reducing coding needs.
- Implemented API support for key features like OAuth 2.0 and Messaging Queues using **Python**, Java, and **Go**, resulting in increased customer satisfaction.

Software Developer Cision Ltd.	May 2022 - Aug 2022 <i>Ottawa, Canada</i>
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- Used **OpenTelemetry** to instrument content streaming pipelines, empowering support teams with critical observability insights into the ingestion process of thousands of articles per day.
- Enhanced pipeline stability and resiliency across services by implementing a retry mechanism and automatic **Kubernetes** pod restarts, reducing overall downtime.
- Led the re-adoption of the multimedia content ingestion **REST** service, improving its performance through bug fixes and a 12% increase in test coverage.
- Developed Java **Spring Boot** microservices for content transformation and enrichment, meeting specific requirements from multiple downstream teams, and improving overall data processing efficiency.

PROJECTS

Cision Comms Consolidator Collaborated within a hackathon team to create a Python and ReactJs-based web application, consolidating critical employee communication channels—like Slack and Outlook—into a unified platform, potentially simplifying communication workflow of employees. We impressed the CEO!

Patient Management System Collaborated within a team to develop a comprehensive full-stack application aimed at efficiently managing patients within a hospital environment. Built using **Spring MVC**, Docker, and Thymeleaf.

Course Booking App Led a 5-person team in creating a full-stack Android Studio application aimed at streamlining the course booking process and facilitating instructor assignment to courses within a university setting. Developed the app using **Android Studio**, **Firebase**, and Java.