# JOSEPH ABONASARA

**Sofware Engineering intern**

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📍 **Ottawa, Canada**

## EXPERIENCE

### Teaching Assistant

**University of Ottawa**

📅 01/2023 📍 Ottawa, Canada

- TA and lab instructor for Operating Systems (CSI 3131)

### Software Engineering Intern

**Twitter**

📅 05/2022 - 08/2022 📍 Remote

- Developed a one-step automation tool for cluster creation automation using Bash, Kubernetes, and Kustomize
- Migrated CockroachDB clusters to use Rich Metrics
- Wrote cql commands for fetching all cluster metrics and updated the cluster dashboards using Python
- Deployed production clusters using workflow
- Integrated Splunk logging to CockroachDB clusters
- Followed DevOps process to complete projects

### Software Developer CO-OP

**Solace**

📅 08/2021 - 12/2021 📍 Ottawa, Canada

- Gained experience in Software Development and Testing
- Improved Solace Messaging APIs (i.e. Go, C# and Python)
- Developed software in Java, Python, Go, C# and C++
- Gained experience running automation tests against the Solace framework through TCL scripts
- Improved product quality and usability by influencing the design and implementation of new features

### IT Developer CO-OP

**Canada Revenue Agency**

📅 05/2020 - 08/2021 📍 Ottawa, Canada

- Gained experience with distributed, multi-tiered systems, algorithms, and relational databases
- Developed Java programs that automate tasks completed daily within the Amendments team to improve time efficiency
- Gained experience with COBOL, XML, JCL, SQL, Mainframe, DB2, VSAM, Batch Processing & Scheduling and CICS

## SKILLS

### Software Engineering skills

Java    Python    Go    C / C#    Kubernetes    SQL

DevOps    JavaScript    Jira    Linux    Algorithms

### Interpersonal skills

Teamwork    Creative Problem Solving

Time Management    Leadership    Communication

## EDUCATION

### BASc, Software Engineering

**University of Ottawa**

📅 09/2019 - Ongoing

GPA **4.0** / 4.0

- Dean's Honour List
- Attended uOttaHack 4

## PROJECTS

### Cluster Creation Automation

📅 07/2022 - 08/2022

Developed a one-step automation tool for cluster creation automation. This was developed using Bash, Kubernetes, and Kustomize. Overall, the automation tool simplified 10 minutes of manual work for creating a multi-region cluster to just a few seconds.

### Rich Metrics and Splunk

📅 05/2022 - 08/2022

Migrated CockroachDB clusters to use Rich Metrics and Splunk logging. This benefits the newSQL team as they no longer need to manually create docker images or manually look for logs within a pod as they can now use fast advanced logging with Splunk.

### AutomaticYearlyConversion

📅 02/2021 - 08/2021

Developed a Java program that converts all mainframe programs from 1 year to another, which helped the Amendments team at the Canada Revenue Agency save weeks of work.

### XMLParser

📅 01/2021 - 08/2021

Took initiative to create a Java application that can parse and verify all the different types of XML documents based on their XSD file that is now used daily at the Canada Revenue Agency.

### MCIntelligente

📅 09/2020 - 02/2021

Developed a chrome extension to associate keywords to specific websites, pdf's or any other type of documents. This was done to help consumers that have a hard time remembering keywords and where they were located.

### Dealish

📅 09/2019 - 12/2019

Achieved first place in a software engineering competition for best marketing website and pitch. The project was developed using HTML, CSS and JavaScript.