

# Amayas Said Amer

[asaid046@uottawa.ca](mailto:asaid046@uottawa.ca) • <https://www.linkedin.com/in/asa11599> • <https://github.com/ASA11599> • <https://www.amayas.ca>

## TECHNICAL SKILLS

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**Languages:** Python, Go, JavaScript, Java, C/C++, HTML/CSS, SQL

**Technologies:** Linux, Git, Docker, Node.js, PostgreSQL, MongoDB, MySQL/MariaDB, Firebase, AWS (EC2, S3), React, Vue.js, Angular

## EDUCATION

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**BASc in Software Engineering (CO-OP), Engineering Management and Entrepreneurship Option**

*University of Ottawa*

2023

## EXPERIENCE

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**Software Developer, Mainframe Modernization**

*Alithya & Amazon Web Services*

January 2024 - Present

- Performed functional-equivalence testing for a legacy mainframe application modernized to run on cloud infrastructure
- Analyzed and corrected differences in application logs, server responses and database state to ensure functional equivalence
- Developed a modern implementation of a legacy program for string compression and decompression
- Technologies: COBOL, C, Java, Spring, Groovy, Apache Tomcat, PostgreSQL, AWS (EC2, S3, Mainframe Modernization)

**Software Developer, 5G CU (CO-OP)**

*Dell Technologies*

May 2022 - August 2022

- Modernized 5G central unit test framework code base from Python 2 to Python 3 to ensure compatibility with modern tools
- Extended test framework functionality by integrating internal library for packet capture
- Performed regression testing and fixed bugs introduced by the upgrade
- Facilitated the upgrade of the test framework by providing comprehensive documentation and guides
- Technologies: Python, Robot Framework, RHEL

**Software Developer, DNS analytics (CO-OP)**

*Canadian Internet Registration Authority*

May 2021 - August 2021

- Led the development of a web portal to visualize real-time DNS monitoring data, delivering insights into Canadian DNS performance
- Allowed efficient and flexible data access by designing a GraphQL API to expose billions of DNS latency measurements
- Created intuitive UI elements such as a geo-spatial visualization and request flow diagrams for DNS monitoring insights
- Configured and automated deployment of the web application on its production infrastructure
- Technologies: Vue.js, Node.js, MariaDB, GraphQL, Ansible, Nginx, Keycloak, Google Charts, OpenLayers

**Software Developer, Network automation (CO-OP)**

*Nokia*

September 2020 - December 2020

- Automated the backup process for remote router configurations to speed up customer engineering work
- Scaled and automated the manual and error-prone initial configuration of remote routers for customer demos
- Designed a custom file format to define router configuration and network topology efficiently for automation scripts
- Technologies: Python, Pexpect, PyInstaller, SROS, SSH, CentOS, Windows

**Software Developer, Web (CO-OP)**

*Ribbon Communications*

January 2020 - May 2020

- Implemented new UI components and an API endpoint for users to send emails to test a mail server configuration
- Extended a table component's functionality to export call data records to CSV
- Unified form validation across the application to ensure consistent behavior and error messages
- Technologies: Angular, PrimeNG, REST, JWT, TypeScript, HTML, CSS, Java, Kubernetes

## PROJECTS

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**MapChat**

2023

Technologies: HTML, CSS, JavaScript, Firebase, Go

A website that allows users to post messages and see messages posted by other users in their geographic location.

**Digital clock**

2018

Technologies: Arduino, C++

A digital clock built with an Arduino microcontroller, buttons and an LCD screen with time, date, timer and stopwatch features.