

# AMAYAS SAID AMER

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[Linkedin](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

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### University of Ottawa

BASc in Software Engineering

September 2018 - June 2023

## EXPERIENCE

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### Alithya | Software Developer, Mainframe Modernization

January 2024 - Present

- Ensured functional-equivalence for a modernized mainframe application using legacy logs and data
- Analyzed and corrected differences in application logs, server responses and database state
- Developed a modern implementation of a legacy program for string compression and decompression
- Improved execution times by 50% by implementing a utility for string concatenation
- Worked with framework developers to replicate legacy decimal calculation behavior

### Dell Technologies | Software Developer, 5G CU (CO-OP)

May 2022 - August 2022

- Modernized 5G test framework 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
- Provided comprehensive internal documentation and guides

### CIRA | Software Developer, DNS analytics (CO-OP)

May 2021 - August 2021

- Led the development of a web portal to visualize live monitoring data of Canadian DNS infrastructure
- Allowed flexible data access by designing a GraphQL API over billions of DNS latency measurements
- Created intuitive UI elements such as a geo-spatial visualization and request flow diagrams
- Configured and automated deployment of the web application on its production infrastructure

### Nokia | Software Developer, Network automation (CO-OP)

September 2020 - December 2020

- Automated the backup process for router configurations to speed up customer demos
- Scaled and automated the manual initial configuration of remote routers for customer demos
- Designed a custom file format to define router configuration and network topology

### Ribbon Communications | Software Developer, Web (CO-OP)

January 2020 - April 2020

- Implemented UI components and API endpoints for users to send test emails
- Extended a table component's functionality to export call data records to CSV
- Unified form validation across the application to ensure consistent behaviour and error messages

## SKILLS

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Programming Languages:	Python, JavaScript, Go, C/C++, Java, HTML, SQL
Libraries/Frameworks:	Express, FastAPI, NumPy, Pandas, Vue.js
Tools / Platforms:	Linux, Git, Docker, AWS, Firebase, GCP, Nginx, Node.js
Databases:	PostgreSQL, MongoDB, SQLite, Redis

## PROJECTS / OPEN-SOURCE

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### StreetIQ | [Link](#)

*Vue.js, Python (FastAPI, Polars, Pandas), Docker, Firebase, GCP, Stripe*

A web application to search and analyze neighbourhoods based on demographic and POI data.

### MapChat | [Link](#)

*HTML, CSS, JavaScript, Firebase, Go*

A website that lets users post messages and see messages sent from other users nearby.