

Amayas Said Amer

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TECHNICAL SKILLS

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

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

EDUCATION

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

University of Ottawa

2023

EXPERIENCE

Software Developer, Mainframe modernization

Alithya & Amazon Web Services

January 2024 - Present

- Modernized a legacy mainframe application 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
- Supported other developers through test framework upgrade by writing documentation and guides
- Technologies: Python, PIP, Robot Framework, RHEL, yum

Software Developer, DNS (CO-OP)

Canadian Internet Registration Authority

May 2021 - August 2021

- Developed a web portal to visualize monitoring data, delivering real-time insights into Canadian DNS performance
- Designed and implemented a GraphQL API to expose the monitoring database, allowing clients to access data more efficiently
- Collaborated with users to create an intuitive UI that effectively communicates key DNS performance metrics
- Technologies: Vue.js, Google Charts, OpenLayers, Keycloak, Ansible, Nginx, GraphQL, Node.js, MariaDB

Software Developer, Network automation (CO-OP)

Nokia

September 2020 - December 2020

- Automated the backup process for a network configuration with a script to save remote router settings to an archive
- Scaled and automated remote router configurations with a script running commands over SSH in parallel
- Designed a custom file format to express network configuration and topology efficiently for automation scripts
- Technologies: Python 3, Pexpect, PyInstaller, SROS, SSH, CentOS

Software Developer, Web (CO-OP)

Ribbon Communications

January 2020 - May 2020

- Designed and implemented UI components and an API endpoint for sending emails to test a mail server configuration
- Extended a table component's functionality to export content 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

MapChat

2023

Technologies: HTML, CSS, JavaScript, Firebase

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.