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, MySQL/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

- 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 fix bugs introduced by the upgrade
- Facilitated the upgrade of the test framework by providing comprehensive documentation and guides
- Technologies: Python, PIP, Robot Framework, RHEL, yum

Software Developer, DNS (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 portal on its production infrastructure
- 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 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 express router configuration and network topology efficiently for automation scripts
- Technologies: Python, Pexpect, PyInstaller, SROS, SSH, CentOS

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

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.