Amayas Said Amer

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TECHNICAL SKILLS

Languages: Python, Go, JavaScript, Java, C/C++, HTML/CSS, SQL
Technologies: Linux, Git, Docker, PostgreSQL, MongoDB, MariaDB, Firebase, AWS (EC2, S3), React, Vue.js, Angular, Node.js

EDUCATION

BASc in Software Engineering (CO-OP), Engineering Management and Entrepreneurship Option
University of Ottawa   2023
GPA: 8.8 / 10

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

- Upgraded 5G central unit test framework code base from Python 2 to Python 3
- 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 a flexible GraphQL API to expose the monitoring database, enabling clients to access and manipulate data more efficiently
- Collaborated with users to create an intuitive UI that effectively communicates key DNS performance metrics, ensuring usability and clarity
- Technologies: Vue.js, Google Charts, OpenLayers, Keycloak, Ansible, Nginx, GraphQL, Node.js, MariaDB

Software Developer, Network automation (CO-OP)
Nokia   September 2020 - December 2020

- Improved team productivity by automating configuration backup and initial provisioning of routers, reducing manual effort and errors
- Reached a maximum number of users by porting scripts to both *Windows* and *Linux* operating systems
- Technologies: Python 3, Pexpect, Pyinstaller, SROS, SSH, CentOS

Software Developer, Web (CO-OP)
Ribbon Communications   January 2020 - May 2020

- Contributed to development of a web-based analytics platform for VoIP network data
- Allowed users to test a mail server configuration by creating UI components and an API endpoint to send test emails
- Improved user experience by allowing navigation during pending API calls
- Technologies: Angular, PrimeNG, REST, JWT, TypeScript, HTML, CSS, Java, Kubernetes, Swagger

PROJECTS

MapChat
Personal project   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.

E-commerce website
School project   2022

Technologies: React, Node.js, MongoDB, Docker, Stripe, Google Cloud, GitHub Actions, Jest
An online store for a local client that sells antiques and collectibles. Gathered requirements, designed, implemented and tested the software.