Amayas Said Amer

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EDUCATION

University of Ottawa   Ottawa, ON
BASc in Software Engineering   *September 2018 – June 2023*

EXPERIENCE

Software Developer, Mainframe modernization   January 2024 – January 2026
Alithya   *Montreal, QC*
- 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

Software Developer, 5G CU (CO-OP)   May 2022 – August 2022
Dell Technologies   *Ottawa, ON*
- 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

Software Developer, DNS analytics (CO-OP)   May 2021 – August 2021
Canadian Internet Registration Authority   *Ottawa, ON*
- 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

Software Developer, Network automation (CO-OP)   September 2020 – December 2020
Nokia   *Ottawa, ON*
- 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

Software Developer, Web (CO-OP)   January 2020 – April 2020
Ribbon Communications   *Ottawa, ON*
- 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 behavior and error messages

PROJECTS

StreetIQ | *Python (FastAPI, Pandas, Polars), Vue.js, GCP, Docker, Firebase, Stripe*   2025
- Collected, cleaned and transformed raw census and POI data
- Created metrics and scores using statistical methods
- Deployed the application backend on GCP using a managed container service
- Implemented credit top-up payments using Stripe

MapChat | *Firebase, JavaScript, Go*   2024
- Used the browser Geolocation API to make a chat application
- Developed a custom in-memory store to efficiently query nearby messages

TECHNICAL SKILLS

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