


MERIAM FOURATI

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EDUCATION

University of Toronto

Candidate for BASc in Computer Engineering

Toronto, ON

Sept 2019 - May 2024 (Expected)

- cGPA: 3.74/4.0
- Engineering Business Minor (Rotman School of Management), Certificate in AI Engineering
- University of Toronto Dean's Honours List (2019, 2020, 2021, 2022)
- Relevant Coursework: Algorithms & Data Structures, Computer Networks, Software Communication & Design (C++), Operating Systems, Object-Oriented Programming, Control Systems, Machine Learning (Python), Databases (SQL)

EXPERIENCE

Google LLC | *Software Engineer Intern*

Sunnyvale, CA, USA

May 2023 - Sept 2023

- **Designed, implemented, and deployed** to production, a user-friendly and extensible **framework** to streamline the process of adding new hardware to existing networks, accelerating qualification workflows by up to 80 hours per new device.
- **Optimized** the framework to support **dependency management** and **scalable API requests**, allowing other teams to easily contribute with validations for their own systems.
- **Authored** a comprehensive design document and **presented** a TechTalk to the org as a reference for engineers.

Tools & Technologies: Go, Goa, gRPC, Google Cloud Platform, Kubernetes (Borg), Topological Sorting Algorithm

BlueCat Networks Inc. | *Software Engineer Co-op*

Toronto, ON

May 2022 - April 2023

- Created tools to **monitor** BlueCat Address Manager (BAM) **resource utilization** and **DNS performance** to aid in troubleshooting and resolving customer issues faster.
- Wrote test suites and **built automated integration and system (end-to-end) tests** which ensured newly added features behaved as expected and caught bugs early in development.
- **Updated** the **front end** of the BlueCat Address Manager to improve access to company documentation.

Tools & Technologies: Python, Java, JUnit 5, Bash, Jenkins, Tapestry, REACT

Bluewrist Inc. | *Software Engineer Intern*

Markham, ON

May 2021 - Aug. 2021

- Created an **authentication API** to generate new passwords for product configuration and administration with validation.
- Built user interface to enable customer self-service to process and analyze 3D scan data.

Tools & Technologies: VB.NET, ASP.NET, MVC, Visual Studio, Jira, TestRail, Google Authenticator

PROJECTS

OURoute | GIS System

Jan. 2021 - Apr. 2021

C++, Unix, libstreets database API, Netbeans

- Developed an interactive Graphical Information System (GIS) application to allow students to navigate around the city efficiently, using a pathfinding algorithm.
- Algorithms: Dijkstra's Algorithm with A* Heuristic, Travelling Salesman

Mutli-User Chatrooms Service

Nov. 2021

C, Unix TCP Socket Programming

- Created a service that allows multiple users to participate in multiple chatrooms in realtime.
- Built an administrator service to manage users, including removing users if required.

SKILLS

Languages: C, C++, Go, Python, Java, Bash, Proto, C#, Verilog, Matlab, Assembly, VB.NET, HTML/CSS

Technologies: Git, Visual Studio Code, JIRA, Chrome Developer Tools, gRPC, GCP, Goa, Kubernetes

EXTRACURRICULARS

Frosh Committee | *Frosh Leader*

May 2020 - Sep. 2020

- Led and managed group activities and provided an inclusive and welcoming atmosphere for new Engineering students.

St.Robert French Tutoring Club | *President*

Sep. 2017 - May 2019

- Coordinated group tutoring sessions, led other tutors, and assisted students in need of French help.

Other Involvements: UofT Skule Dance Team

Interests: Piano, Gymnastics, Volleyball, Tennis, Dance