Nidaa Rabah

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Skills

Programming Languages: C, C++, Python, HTML, CSS, JavaScript, SQL
Libraries and Frameworks: Flask, Django, Dash, React, Pandas, Polars
Tools: Unix/Linux, Windows, Git, Jira, Azure DevOps, Excel, PowerBI

Education

University of Toronto | Bachelor of Applied Science and Engineering **2021 – 2026**
Major: Computer Engineering | Minor: Engineering Business | PEY Co-Op Program

- Dean's Honours List – 2023-2024
- Salim Majdalany Scholarship award recipient – 2021
- Edward S Rogers Sr. Admission Scholarship recipient – 2021

Relevant courses: ECE344: Operating Systems | ECE345: Algorithms and Data Structures | ECE444: Software Engineering | CSC343: Introduction to Databases | CSC309: Programming on the Web.

Work Experience

Business Intelligence Developer Intern, MHI RJ **May 2024 – Present**

- Built and deployed interactive dashboards using Dash, Flask, and Plotly, enabling teams to monitor Key Performance Indicators and eliminate manual Excel and PowerBI-based workflows.
- Utilized Polars and Pandas for efficient data manipulation and transformation in Python-based backend workflows, automating data extraction and reporting tasks, reducing routine work time by 97% daily.
- Maintained live dashboards serving 100+ internal users by managing pipelines through Azure DevOps and Azure Portal.
- **Technologies**: Python, Flash, Dash, JavaScript, Polars, Pandas, Azure DevOps, Plotly, Git, Excel, PowerBI

Software Engineering Intern, BitByte Consulting **July 2023 – October 2023**

- Attended meetings with potential clients to assess their requirements in developing customized web applications.
- Assisted software engineers in the development of a solar calculator web application.
- **Technologies**: HTML, CSS, JavaScript

Projects:

Full-Stack Developer – OneOnOnes: **January 2024 – April 2024**

- In a team of 4, working on a website that helps users schedule regular 1-on-1 meetings with others.
- Ensuring responsive design for optimal user experience across devices, using the mobile-first approach.
- **Technologies**: HTML, CSS, Django, React, SQL, Git

Software Engineer - Poppin: **September 2023 – December 2023**

- With a team, developed a Python based web application that provides a centralized platform for university students to access and explore flyers from clubs and student associations, ensuring responsive design for optimal user experience across devices.
- Engineered user-friendly "My Profile" section for seamless profile editing, including username, password, profile picture, and bio updates.
- Implemented features to view liked events and manage created events, enhancing user engagement and customization.
- **Technologies**: Python, Flask, HTML, CSS, JavaScript, Git, Jira

Developer - MapEZ: **January 2023 – April 2023**

- Worked on building a geographic information system, leading a team of 3, implementing functions to store and search through data from the Open Street Map (OSM) API.
- Implemented A* algorithm for path finding, averaging 19.27ms to find the more complex paths on the map.
- Implemented multi-destination Dijkstra to solve the traveling salesman problem, averaging 18.40s completion time for the harder cases, which is significantly lower than the 50s limit of the unit test cases.
- **Technologies**: C++, GTK, OSM API, Git