RICHARD OMOROTIONMWAN

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EDUCATION

University of Alberta   *September 2020 – April 2025*
BSc Computing Science (Specialization in Software Practice)

TECHNICAL SKILLS

Languages: C, C#, C++, Java, Python, SQL, MongoDB, Bash
Frameworks/Tools: Git, Microsoft Azure, Android Studio, Power BI, Tableau, SAP, Databricks

PROFESSIONAL EXPERIENCE

Suncor Energy   *Calgary, Alberta*
Data Analyst   *May 2023 - August 2024*
- Created a **Python** recursive program that generated a hierarchical risk structure from parent-child relationships stored in a **SQL** server, exporting the output to a CSV file for integration within **Power BI**.
- Developed and maintained a **Power Automate** flow that enhanced operational efficiency by automating **ETL** processes. This flow captured parameters from Microsoft forms, utilized a **REST API** to trigger a **Python Databricks** notebook for processing, and interacted with **Azure** Data Lake Storage for data retrieval and storage, ultimately improving data management.
- Developed **DAX/Power Query** scripts for efficient data querying in **Power BI** databases and created Power BI reports showcasing key metrics and trends.

Enbridge   *Edmonton, Alberta*
Process Engineering Intern   *May 2022 - August 2022*
- Utilized **Object Oriented Programming** to develop a **Python** application for Tank Limit computation, replacing formerly used excel files.
- Conducted reviews of the validity of temperature excursions and developed DAX scripts to analyze data inputs using **PowerBI**.
- Developed Python program that retrieved hourly ambient temperatures and sent notifications when a threshold was exceeded.

Emerson Automation Solutions   *Calgary, Alberta*
Automation Engineering/Data Analytics Intern   *May 2021 - August 2021*
- Generated instrument performance reports using Zedi Access **SCADA** system.
- Developed **C++** scripts to query, modify and analyze data inputs on **Tableau Data Analytics**.
- Developed templates for mass data entry and helped with quality assurance.
- Supported SCADA **HMI** (Human machine interface) and **UX** contributions and feedback.

CERTIFICATIONS

Microsoft Azure Fundamentals
Microsoft Career Essentials in Software Development

PROJECTS

HunterQRHunter game (Java/Android Studio)   **github.com/CMPUT301W23T52/HunterQRHunter**
- Developed the geolocation component of the app by leveraging user-scanned QR-code data stored in **Firebase**, ensuring seamless functionality within the application.
- Utilized Google maps **API** to display different markers based on user choices.
- Developed and designed the frontend **UI** of the Map component using an **XML** file, ensuring that it was well-packaged and user-friendly.

Edmonton Map Client/Server Application (C++)
- Read user-selected start and goal points from an interactive map and plotted the most efficient route using the Manhattan distance.
- Utilized weighted directed graphs, ports, sockets and Dijkstra's algorithm.
- Used a server and client to communicate from the terminal to the map **UI**.