

RICHARD OMOROTONMWAN

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EDUCATION

University of Alberta

BSc Computer Science (Specialization in Software Practice)

September 2020 – April 2025

Relevant Coursework: Algorithms I/II • Computer Organization and Architecture I • Game AI • Software Engineering • Introduction to Reinforcement Learning • Search and Planning in AI • OS Concepts • Software Quality • Intelligent Systems (AI)

TECHNICAL SKILLS

Languages: C, C#, C++, Java, Python, SQL, MongoDB, Bash, HTML, CSS

Frameworks/Tools: Git, Microsoft Azure, Firebase, Android Studio, Power BI, Tableau, SAP, Databricks, Spark

PROFESSIONAL EXPERIENCE

Suncor Energy

Calgary, Alberta

Data Analyst

May 2023 - August 2024

- Developed and maintained a **Power Automate** flow for automating **ETL** processes, capturing parameters from Microsoft forms, using a **REST API** to trigger a **Python Databricks** notebook, and interacting with **Azure** Data Lake Storage for data management, enhancing operational efficiency.
- 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 **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 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**.