

Alice Liu

Data Analyst

👤 lialice.me

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SKILLS

Programming: Scala, Python, C, C++, C#, Java, Bash, Scheme

Big Data: Spark, Hive, Google Cloud, BigQuery, QlikView

Database: OracleSQL, MySQL, PostgreSQL

Web: HTML, CSS, JavaScript

Other: R, Airflow, Jenkins, Microsoft Office

EXPERIENCE

BBM

DATA ANALYST

Sep 2017 - Dec 2017 | Kitchener, ON

Scala, Spark, HiveQL, Google Cloud, BigQuery, Airflow

- Built scalable **ETL data pipelines** to extract time series data from Google Cloud Storage, transform them using **Scala**, then load them to BigQuery for visualization
- Created DAG files using **Airflow** to execute the ETL jobs
- Migrated **HiveQL** queries on Hadoop MapReduce to **Spark** jobs

BANK OF NOVA SCOTIA

PROGRAMMER ANALYST

Jan 2017 - Apr 2017 | Toronto, ON

Python, Oracle SQL, Java, Bash

- Generated data reports using **Oracle SQL** and transformed them by parsing strings based on key value pairs, and restructured unaligned strings in CSV files in **Python**
- Automated the metrics report generation process with **Bash** scripts, and modified **Java** software application to prevent erroneous reports that are produced by daily cronjob

SOFTEK

FINANCIAL SOFTWARE DEVELOPER

May 2016 - Aug 2016 | Mississauga, ON

C#, WinForms, XML

- Developed a configuration for financial software in **C#** that allow users to view and modify the configuration settings
- Optimized the software with reduced redundant user information which resulted in a more efficient UI using **WinForms**

PROJECTS

JOBMINER | CONUHACKS

JavaScript, HTML, CSS, Python, JSON

- Built a web application that uses Rabin-Karp string searching algorithm to match user's skills with the content of the job description to determine the user's job compatibility

JAVA PLATFORM GAME

Java, Design Patterns

- Converted map coordinates to undirected graphs and implemented Floyd-Warshall algorithm to improve game efficiency

EDUCATION

UNIVERSITY OF WATERLOO

BACHELOR OF COMPUTING AND FINANCIAL MANAGEMENT

2015 - 2020

ACTIVITIES

UWMCC Case Competition | Top 10 Finalists | March 2016

ETIC Club | Event Coordinator | 2016 - 2017

Interests: Competitive Badminton, Basketball, Tennis, Swimming, Table Tennis, Violin