

JEFFREY CHAK-HIM CHAN

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PROFESSIONAL EXPERIENCE

Data Engineer

December 2022 -

Compass Analytics. Montreal, QC - Canada

As a Data Engineer, I develop the **data ingestion** engine from the ground up using web scraping libraries, create and design scalable **cloud architecture** and deploy it onto AWS, and develop thorough **data pipelines** for consumption.

DATA INGESTION ENGINE

- Develop code to allow ingestion of raw data online and extraction for data pipelines used by business analysts, and data scientists
- Explained and document current design choices and future considerations for stakeholders and technical positions
- Design the cloud architecture for deployment to address business and technical demands for scaling and future endeavors

DATA PIPELINES

- Create various transformations to address business demands and questions
- Produce layered data cleaning levels from raw data to Gold quality layer

Relevant Skills: Amazon Web Services (AWS), Solution Architecture, Python, Big Data Analytics

Data Engineering Intern

May 2021 - August 2021

Intact Financial Corporation. Montreal, QC - Canada

In this role, I translated business demands to technical requirements for the new database systems. Ensuring data quality after mapping remained consistent using Erwin Data Catalog to reduce costly reconfigurations. Worked with Data Engineers manipulating existing data structures and file formats to conform towards allowed Snowflake data type.

DATA SYSTEM DESIGN

- Analyzed existing data system capabilities, investigated prospective systems given new system requirements, and proposed possible solutions

DATABASE MIGRATION

- Engineered and modified data structures within the legacy database to conform to data input requirements of the insurance pricing engine

Relevant Skills: Python, SQL Server databases, Data Analysis, Erwin Data Catalogue, Snowflake

Business Intelligence Developer

January 2021 - April 2021

McGill University. Montreal, QC - Canada

As a developer I Identified the requirements and developed SQL scripts to maintain the existing Oracle database servers from costly and repetitive time-consuming manual intervention on large databases.

DATA EXTRACTION AND ANALYTICS

- Extracted requirements, coded, and tested new software, perform maintenance and enhancements to software
- Generated business and database health reports using PowerBI and SSRS

Relevant Skills: SQL Server databases, Software Development and Analysis

EDUCATION

Bachelor of Engineering – Software Engineering C-Edge

Concordia University - Gina Cody School of Engineering, Montreal, QC - Canada

- GPA: 3.5/4.3
 - Member of the Institute for Co-Operative Education
 - Student Leadership: Executive Vice-President, Engineering and Commerce Case Competition
- Relevant Courses:** Machine Learning, Big Data Analytics, Artificial Intelligence, Data Structures and Algorithms

SKILLS & TOOLS

Cloud Services: Amazon Web Services

Languages: Python (Intermediate), Java, SQL, MongoDB, JavaScript, HTML, CSS, Git

Packages & Libraries: sklearn, numpy, pySpark, pandas, nltk, TensorFlow 2.0, keras, selenium, BeautifulSoup

CERTIFICATIONS, DESIGNATIONS & CLEARANCES

Databricks Lakehouse Fundamentals

January 2023

Databricks Inc.

AWS Certified Cloud Practitioner

November 2022

Amazon Web Services

Python

August 2019

Testdome

COMMUNITY/PROFESSIONAL ACTIVITIES

Case Competition Judge

September 2022 - Present

Engineering and Commerce Case Competition, Montreal, QC - Canada

- Provide feedback to students on innovative engineering and business solutions to industry challenges
- Review and critique student solutions leveraging expertise in engineering and design

Executive Vice-President

April 2021 - May 2022

Engineering and Commerce Case Competition, Montreal, QC - Canada

- Led a team of Vice-Presidents to accomplish their departmental goals
- Executed administrative tasks to support to the President with their mandate and tasks
- Handled operational tasks such as setting deadlines, overseeing department progress, and organizing meetings
- Oversaw a weeklong international engineering and business case competition

Vice-President, Technology

July 2020 - April 2021

Engineering and Commerce Case Competition, Montreal, QC - Canada

- Led the transition to an online case competition platform during the COVID-19 pandemic
- Administered technical support in a timely manner during online case competition
- Supervised and organized communication systems on platforms
- Trained team members through creating written instructions and media

PROJECTS

Course Recommendation System

- Completed for Big Data Analytics (SOEN471) the project ingest data from Concordia's Open Data platform to extract keywords from course descriptions
- Applied Content Based and Collaborative Filtering Models to provide suggestions based on student ratings and course similarity.

Relevant Skills: PySpark, Data Engineering, Machine Learning, Python

ADDITIONAL INFORMATION

English, French (Spoken, Written) | Cantonese (Spoken)