

# JEFFREY CHAK-HIM CHAN

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## PROFESSIONAL EXPERIENCE

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### Data Engineer

December 2022 -

Compass Data. Montreal, QC - Canada

As a Data Engineer I develop the data ingestion engine from the ground up using web scraping libraries, create scalable cloud architecture and deploy onto AWS, and develop thorough data transformation pipelines for end-user consumption. Working directly with the stakeholders to address business and technical requirements.

#### 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

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### Bachelor of Engineering – Software Engineering C-Edge

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

- GPA: 3.6/4.3
- 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

## CERTIFICATIONS, DESIGNATIONS & CLEARANCES

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**AWS Certified Cloud Practitioner**  
Amazon Web Services  
**Python**  
Testdome

**November 2022**

**August 2019**

## **PLATFORMS & PROGRAMMING LANGUAGES**

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

**Cloud:** AWS

**Data Visualization:** matplotlib, Power BI

**Packages (Selected):** sklearn, numpy, pandas, nltk, TensorFlow 2.0, keras, PySpark, selenium, BeautifulSoup

## **COMMUNITY/PROFESSIONAL ACTIVITIES**

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### **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

## **ADDITIONAL INFORMATION**

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