JEFFREY CHAK-HIM CHAN

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PROFESSIONAL EXPERIENCE

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 and design scalable cloud architecture and deploy it 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

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

Databricks Lakehouse Fundamentals **January 2023**
Databricks Inc.
AWS Certified Cloud Practitioner **November 2022**
Amazon Web Services
Python **August 2019**
Testdome

PLATFORMS & PROGRAMMING LANGUAGES

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

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

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