

# Jeffrey Chan

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GitHub: [github.com/JeffreyCHChan/JeffreyChan](https://github.com/JeffreyCHChan/JeffreyChan)

## PROFESSIONAL EXPERIENCE

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### Data Engineer | October 2022 – September 2023

Compass Analytics

As a Data Engineer, I developed the **data ingestion** engine from the ground up using web scraping libraries, designed scalable **cloud architecture**, deployed it onto **AWS**, and developed **data pipelines** for consumption.

#### DATA INGESTION ENGINE

- Integrated a data ingest system for extracting and storing **25 documents per 30 seconds** into **AWS** data storage
- Generated **AWS cloud architecture** designs according to stakeholder plans and requirements

#### DATA PIPELINES

- Produced pipelines using **Python** to improve data quality through filtering and transformations, within **5 minutes**
- Created various data transformation layers to address project requirements for **PowerBI** and analytics tools.

**Relevant Skills:** Amazon Web Services (AWS), Solution Architecture, Python, Snowflake, Databricks

### Data Engineering Intern | May 2021 - August 2021

Intact Financial Corporation

In this role, I translated business demands into technical requirements for the incoming **Snowflake** database, ensuring data quality using the **Erwin Data Catalog** and minimizing costly reconfigurations.

#### DATABASE MIGRATION

- Migrated a legacy database to meet new requirements, resulting in monthly **cost savings of over \$15,000**

#### DATA SYSTEM DESIGN

- Mapped data transformations using the **Erwin Data Catalog** between legacy system and **Snowflake**

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

### Business Intelligence Developer | January 2021 - April 2021

McGill University

As a developer, I developed **SQL** scripts to automate maintenance tasks on existing **Oracle database** servers, eliminating costly and time-consuming manual interventions for large databases.

#### DATA EXTRACTION AND ANALYTICS

- Extracted requirements, developed, and tested code, **saving over 20 hours monthly** for database administrators
- Automated business reports and **Oracle** 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: 3.57
  - 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

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**Cloud Services & Tools:** Amazon Web Services, Databricks, Excel, Word, PowerPoint

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

**Packages & Libraries:** scikit-learn, NumPy, PySpark, pandas, NLTK, TensorFlow, BeautifulSoup

## CERTIFICATIONS, DESIGNATIONS & CLEARANCES

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### Databricks Lakehouse Fundamentals | January 2023

Databricks Inc.

### AWS Certified Cloud Practitioner | November 2022

Amazon Web Services

## COMMUNITY/PROFESSIONAL ACTIVITIES

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**Case Competition Judge** | September 2022 - Present  
Engineering and Commerce Case Competition

- 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

- Led a 20-person team to accomplish their mandates
- Handled operational tasks such as setting deadlines and overseeing department progress
- Oversaw a weeklong international engineering and business case competition

**Vice-President, Technology** | July 2020 - April 2021  
Engineering and Commerce Case Competition

- Led the transition to an online case competition platform during the COVID-19 pandemic
- Administered technical support promptly during the online case competition
- Trained team members by creating written instructions and media

## PROJECTS

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### Formula 1 Analytics

- Develop code that streamed real-time car telemetry
- Create dashboards and analysis tools from streamed data

**Relevant Skills:** *Python, Data Networking, Databricks, AWS*

### Capstone

- Developed a data viewing platform for DICOM files improving the workflow of data scientists.
- Improved responsiveness in retrieving data by over **6000% (70 seconds to 1.5 milliseconds)**

**Relevant Skills:** *Database Design, C#, Backend Development*

### Course Recommendation System

- Completed for Big Data Analytics ingesting data and extracting keywords in Excel containing course descriptions
- Applied recommendation models to provide suggestions based on student ratings and course similarity

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

## ADDITIONAL INFORMATION

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