

# Tran Quoc Trung

Data Engineer Fresher

Portfolio: [tranquoctrung.id.vn](https://tranquoctrung.id.vn)

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## Education

VNU-HCM University of Science

Oct 2020 - Aug 2024

Bachelor's degree Computer Science

GPA: 8.3/10

## Skills

Programming Python, SQL, C++

Tools Apache Hadoop, Spark, Airflow, Kafka, Power BI, Docker, Git

DBMS MySQL, Microsoft SQL Server, MongoDB Atlas (Basic)

NoSQL MongoDB, Cassandra

Cloud Microsoft Azure (ADLS, Azure Factory, Azure Functions, Azure Synapse, Azure SQL Database)

Languages Proficient in English reading and communication in a work environment

## Work Experience

Inter-K JSC - Data Engineer Intern | Full-time

Nov 2023 - Jan 2024

- Converted approximately 100 SAP crystal reports into paginated reports using PowerBI Report Builder.
- Provided guidance to counterparts on the utilization of the PowerBI Report Builder.
- Technologies: **PowerBI Report Builder, Crystal Reports, DAX, Gitlab**

## Technical Projects

**Movies ETL Pipeline** ([github.com/TrungTechh/IMDBMovieETL](https://github.com/TrungTechh/IMDBMovieETL))

May 2024 - Jun 2024

*This project aims to utilize Azure technologies to create a film scraping pipeline from the IMDB website for data preparation for analysis.*

- Created an auto-scaling crawler using Azure Functions, deployed on Azure App Service.
- Established a Spark streaming job in Azure Databricks for proficient and automated data processing.
- Provided insightful visualizations and actionable insights on movie industry trends utilizing PowerBI.
- Technologies: **Azure Functions, Azure Databricks, Azure DLS, Spark Streaming, PowerBI**
- Demo video: <https://www.youtube.com/watch?v=yB6MsZQX9TE>

**Big data ETL Pipeline** ([github.com/TrungTechh/airflow-etl](https://github.com/TrungTechh/airflow-etl))

Apr 2024 - May 2024

*Built a pipeline for processing and storing large datasets with robust data modeling.*

- Processed 30GB of raw data using Spark across multiple storage layers.
- Implemented data design patterns and data modeling to progressively enhance data structure and quality.
- Technologies: **Spark, Airflow, Hive, HDFS**

**Streaming Data Pipeline** ([github.com/TrungTechh/Weather-and-Daily-Life](https://github.com/TrungTechh/Weather-and-Daily-Life))

Jan 2024 - Apr 2024

*Developing an application that can perform real-time analysis of the weather conditions, service quality, and traffic status in Ho Chi Minh City.*

- Used YOLOv8 to detect 5+ vehicle types in traffic footage from Ho Chi Minh City's official site.
- Engineered solution to efficiently process real-time traffic data using Kafka, which increased data ingestion speed by 20%.
- Implemented data visualization dashboards in Power BI to present actionable insights to stakeholders.
- Technologies: **Python, Kafka, Power BI, Spark, Cassandra, Airflow, Flask, Docker**

## Certifications

TOEIC (Listening and Reading): **815**

DP-900: **Azure Data Fundamentals**

## Activities & Awards

SAB in HCMUS - Member

Aug 2021 - Jul 2024

- Hosting extracurricular activities for students and creating non-profit business projects.

Encouragement Study Scholarship

1st-year, 2nd-year, 3rd-year

Dien Luc Scholarship

Apr - 2022