

# HONG-QUAN PHAN

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## Education

**Ho Chi Minh City University of Technology (HCMUT)** Ho Chi Minh City, Vietnam  
Bachelor of Computer Science and Engineering: GPA 3.6/4 (8.56/10) October 2022 - Present

- **Academic Incentive Scholarship:** Semester 2 (2023 - 2024)
- **HCMUT - OISP Scholarship:** Semester 1 (2023 - 2024); Semester 1, 2 (2022 - 2023)
- **Top 10 Young Engineering Talent Scholarship** - Issued by Pasona Tech Vietnam Co., Ltd.

## Experience

**Viettel Group - Viettel Digital Talent Program** Remote  
**Data Engineering Intern - Phase 1** April 2025 - June 2025

- Learned core data engineering concepts including batch vs. streaming, data pipelines.
- Completed a mini project building a **real-time customer data platform** using **Kafka**, **Flink**, and **ClickHouse**.
- Practiced using key tools across data pipeline phases, including **Apache NiFi** (ingestion), **Kafka** (streaming), **Spark** (processing), and **HBase** (storage).

## Projects

**Bank Transaction ETL & Aggregation Pipeline** May 2025  
Raw bank transaction logs required structured and clean data for downstream analysis.

- Schedule an ETL pipeline using **Apache Airflow**
- Extract, clean, and aggregate transaction data using **PySpark**
- Stored results in **PostgreSQL**; containerized with **Docker**.

**Multidisciplinary Project - HCMUT** Jan 2025 - June 2025  
Investigate data compression algorithms in IoT devices

- Conducted **literature review** on **compression algorithms** for IoT data streams
- Implemented and evaluated data compression techniques on weather sensor.

## Technical Skills

**Programming Language:** PL/SQL, C++, Scala, Bash, Python  
**Database:** Oracle, PostgreSQL, MySQL  
**Data Processing Tools:** [Azure Databricks \(PySpark\)](#), Apache (Kafka, Spark)  
**Orchestration workflow:** Apache Airflow  
**Containerization & Version Control:** Docker, [Git](#)  
**Visualization:** Metabase

## Extra Activities and Certificates

**Class President:** HCMUT - CC22KHM1  
**Member of Marketing:** HCMUT - Big Data Club  
**IELTS 6.5** - Issued by IDP  
**Problem Solving (Intermediate)** - Issued by HackerRank  
**SQL (Advanced)** - Issued by HackerRank  
**Google Data Analytics Professional** - Issued by Coursera