



# TRUNG QUAN DO

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## DATA ENGINEER - INTERN

### EDUCATION

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- Faculty of Mathematics and Informatics, Hanoi University of Science and Technology.
- GPA: 3.97/4.0.
- Received academic scholarship for 6 semesters.

### CONTACT

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📍 Soc Son, Ha Noi

### SKILL

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- **Basic Mathematics:** Calculus, Algebra, Probability and Statistics.
  - **Applied Mathematics:** Data Structures and Algorithms, Discrete Mathematics, Optimization Methods.
  - **Systems:** Decision Support Systems, Data Analysis.
  - **Database Management:** Excel, Python (Pandas, NumPy, scikit-learn, Matplotlib), MySQL.
- Communication:** TOEIC 545.
- Soft Skills:** Technical Writing and Presentation, Leader.

### CAREER OBJECTIVE

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- Become a Data Engineer within 5 years, specializing in building efficient, scalable data pipelines and systems.
- Utilize expertise in data processing and analytics to develop automated systems that optimize data workflows and improve decision-making processes.
- Contribute to the development of modern data solutions with a focus on performance, scalability, and data integrity.

### PROJECT

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**Group Project:** Data Warehouse and Business Intelligence for Transportation Delivery Center.

Role: Team Leader.

Technologies Used:

- Programming Language: Python.
- Framework: Pandas, scikit-learn.
- Database: MySQL.

Description: Led the development of a Data Warehouse and Business Intelligence system for a Transportation Delivery Center, with the following features:

- ETL Process: Developed an ETL pipeline for data cleaning, transformation, and loading, including handling nulls, removing duplicates, and applying KMeans clustering.
- Data Transformation: Aggregated data in MySQL and created OLAP tables by querying the aggregated data, partitioning it into dimensions and measures to support effective BI analysis.
- Automation: Automated the ETL process using Python and Task Scheduler to ensure real-time data processing and updates.

**Personal Project:** COVID-19 Situation Report.

Role: Team Leader.

Technologies Used: Database MySQL.

Description: Led the development of the COVID-19 Situation Report project, focusing on designing and implementing a database solution for COVID-19 related statistics. Key responsibilities included:

- Database Design: Created Entity-Relationship (ER) and Relational Entity (RE) models to define the structure and relationships of data entities related to the COVID-19 pandemic.
- SQL Queries: Developed and optimized complex SQL queries to retrieve statistical data and generate reports based on specific requirements, supporting data analysis and decision-making regarding the pandemic situation.