

# LUONG NGUYEN YEN NHI

## Data Engineer

Ho Chi Minh City • (+84) 378 282 298 • [lryn.netlify.app](https://lryn.netlify.app) • [ynnhi1508@gmail.com](mailto:ynnhi1508@gmail.com)

### SUMMARY

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Aspiring Data Engineer eager to contribute to team success and grow through hands-on experience with impactful data-driven solutions.

- **Short-term Goal:** Secure a Data Engineer internship to gain practical experience and enhance my technical skills.
- **Long-term Goal:** Become a Senior Data Engineer within the next five years.

### TECHNICAL SKILLS

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- **Programming:** Python
- **Database:** PostgreSQL, MySQL
- **Big Data Tools:** Spark, Kafka
- **Orchestration:** Airflow
- **Cloud:** Azure

### PROJECTS

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**Coffee Sales Analytics Platform** | Python, KafkaConnect, ElasticSearch, Airbyte, PostgreSQL, DBT

March 2025

Source: [Project Website](#)

- Goal: Develop a hybrid data pipeline for real-time and batch analysis of coffee sales and customer behavior.
- Successfully implemented a hybrid data pipeline to simulate and analyze coffee shop transactions.
- Leveraged Kafka Connect to implement Change Data Capture-based architecture for real-time data sync from MongoDB.
- Built real-time dashboard with Elasticsearch & Kibana for instant insights.
- Implemented batch ingestion with Airbyte and structured data in a PostgreSQL-based data warehouse, with transformation, data validation (null checks, duplicate filtering), and dimensional modeling handled by DBT.

**Automated Job Data Pipeline** | Python, Playwright, Postgres, Airflow

October 2024

Source: [Project Website](#)

- Goal: Automate job data scraping and streamline storage with daily updates for better job monitoring.
- Scraped job data from TOPCV using Requests and Playwright.
- Cleaned and stored the data in PostgreSQL, generating a "due date" field based on the application deadline.
- Automated updates for the "remaining time to apply" field daily (e.g., "24 days left" to "23 days left").
- Orchestrated the entire pipeline (scraping, cleaning, and storage) with Airflow for seamless automation.

**Real-Time NYC Trip Analytics** | Python, Postgres, Kafka, Spark, PowerBI, Docker

August 2024

Source: [Project Website](#)

- Goal: Improved trip monitoring and anomaly detection, providing actionable insights for NYC transport services.
- Deployed Dockerized Kafka for data streaming and Spark for real-time transformation and analytics.
- Analyzed trip trends and detected anomalies (e.g., short trips, fare mismatches).
- Stored processed data in PostgreSQL and visualized insights via an interactive PowerBI dashboard.

### EDUCATION

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**Sai Gon University**

Bachelor of English Linguistic

GPA: 3.12

Ho Chi Minh City

August 2020