

Loc Tran Xuan

Data Engineer

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Work Experiences

Data Engineer

11/2022 – present

Yody Fashion Joint Stock Company

- **Team size: 4**

- **Responsibilities:**

- Monitor and schedule data crawling job to automation synchronize operation and analytics data from multiple sources using Nifi and synchronize to Google Cloud Storage.
- Construct a fast and scalable data platform based on Google Cloud Platform; optimized the execution time by up to 50% in wrangling time, consistency, and cost-efficiency for Department of Data in Yody.
- Implement stored procedures and functions using BigQuery to enable backend data retrieval via API and PowerBI query.
- Develop data marts for sales, inventory and analytic reports serving for c-level and other departments using ETL tools like Spark, Flink and Pentaho.
- Manage access controls within Big Query to enforce column-level and row-level security policies and data masking protocols.
- Manage data catalog on Datahub to organize, document, and metadata descriptions for enterprise-wide data sources.
- Address data quality problem of customer-related analytics through creating monitoring and tracking pipeline on 4 main dimensions including validity, completeness, uniqueness, and consistency.

- **Technologies:**

- Batch processing & Data Quality stack: Kafka, Nifi, GCS, Spark, Delta table, Airflow, BigQuery.
- Streaming processing stack: Kafka, Flink, Postgres.
- Data catalog: Datahub.

Research Assistant

06/2021 – present

Computer Science Laboratory, VNU-HCMC HCMUS

- **Responsibilities:**

- Implement and assess deep learning architecture from geometric perspective to solve the link prediction problem on knowledge graphs.
- Publish and present research papers in two B-rank conferences.
- From 2023, mainly focus to finding the integration of Explainable AI and the causality of time dimension and hierarchical entity feature in Temporal Knowledge Graph.

- **Technologies:**

- Tech Stack: Pytorch, Slurm, BashScript.
- Domain: Graph Neural Networks, Complex & Hyperbolic space.

Education



The Bachelor of Science

2018 – 2022

VNU-HCMC University of Science

- **GPA:** 8.86/10

- **Achievements:**

- Two publications on ACIIDS 2022  and KSEM 2022 .
- Academic incentive scholarship: 2018, 2019, 2022.
- Eureka Scientific Research Student Award: 2022.

Master's Degree

12/2022 – present

VNU-HCMC University of Science

- **Research direction:** Researcher at Computer Science Laboratory on Temporal Knowledge Graphs Completion via Graph Neural Networks and Explainable AI.

Publications

A Novel Integrating Approach Between Graph Neural Networks and Complex Representation for Link Prediction on Knowledge Graphs

28/11/2022

Thanh Le, Loc Tran and Bac Le

Integrating Quaternion Graph Convolution Networks with Tucker Decomposition for Link Prediction on Knowledge Graphs

19/07/2022

Thanh Le, Chi Tran, Loc Tran and Bac Le

Summary Skills

IELTS 5.5 • Nifi • Kafka • Google Cloud Storage • Spark • Flink • Airflow
BigQuery • Data Catalog • Data Quality