TRIEU NGUYEN KHAC

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SUMMARY

Analytical and detail-oriented tech enthusiast with a strong foundation in data analysis, SQL, and dashboard development. Experienced in pulling and transforming large datasets, creating business metrics reports, and visualizing insights using tools like Power BI. Proven track record in academic projects involving ETL, data warehousing, and real-time analytics. Eager to apply technical and problem-solving skills in a data-driven environment to support strategic decisions and uncover growth opportunities.

EDUCATION

VNUHCM - University of Science — Ho Chi Minh City, Vietnam
Bachelor of Information Systems • GPA: 3.30/4.00 — 2021 - Expected in 2025

PROJECTS

BESTIE - PERSONAL MEAL PLANNER — January 2025 - Present
Thesis Project

- Designed and implemented ETL pipelines to process nutritional data from multiple sources.
- Applied machine learning algorithms for personalized meal plan recommendations using user dietary preferences and food features.
- Integrated Gemini API to enhance the standardization of ingredient units and quantities
- Implemented a modular microservices architecture using Docker/Kubernetes for scalability.
  Technologies: Python (Scikit-learn), Java, PostgreSQL, MongoDB, Flutter, Docker/Kubernetes

US AQI ANALYSIS — September 2024 - December 2024
University Project

- Processed large-scale air quality datasets across 10 U.S. states using ETL workflows.
- Engineered a data warehouse architecture for historical and real-time analysis.
- Demonstrated strong data modeling and data quality assurance practices.
- Created automated Power BI dashboards to track key environmental metrics and trends and performed predictive analytics using Python.
  Technologies: SSIS, SSAS, Python, MS SQL Server, Power BI
  GitHub: https://github.com/trieuvisaooo/US_AQI_Analysis

SIMULATED CREDIT CARD TRANSACTION SYSTEM November 2024 - December 2024
University Project

- Designed a simulated real-time data pipeline for fintech applications, processing high-volume credit card transactions with Apache Kafka and Spark Streaming.
- Built a Hadoop-based infrastructure to efficiently handle high-volume transaction data.
- Automated workflows with Apache Airflow, reducing manual processing time.
- Created Power BI dashboards to visualize transaction trends, enabling real-time business insights.
  Technologies: Apache Kafka, Spark Streaming, Hadoop, Power BI, Airflow
  GitHub: https://github.com/trieuvisaooo/Simulated_Credit_Card_Transaction_System

SKILLS

- Programming: Python, SQL, C#, C++
- Databases: PostgreSQL, MongoDB, MS SQL Server, Oracle DB
- Data Engineering: Apache Kafka, Apache Airflow, SSIS
- Big Data: Apache Spark, Hadoop
- BI Tools: Streamlit, Power BI, SSAS
- Cloud & DevOps: Docker, Kubernetes, AWS (foundational)
- Tools: Git, Jira, Slack, Enterprise Architect, Zoom

CERTIFICATIONS

English Proficiency:
- TOEIC: 820 | IIG Vietnam | June 2024