TRIEU NGUYEN KHAC

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SUMMARY

Aspiring Data Engineer with proven experience in building scalable pipelines, optimizing workflows, and ensuring data quality. Proficient in SQL, Python, and data integration tools like Apache Airflow. Hands-on knowledge of big data frameworks (Apache Spark, Hadoop/YARN) and ETL tools (SSIS). Led cross-functional teams in university projects, delivering data-driven solutions under tight deadlines.

EDUCATION

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

PROJECTS

BESTIE - Personal Meal Planner · Jan 2025 – August 2025
Tech: Flutter, PostgreSQL, MongoDB, Python, Java, Docker/Kubernetes · GitHub

- Designed and implemented a scalable ETL pipeline to collect and standardize meal and nutrition data from diverse sources (APIs, crawlers).
- Engineered a hybrid database architecture using PostgreSQL and MongoDB, supporting modular microservices.
- Built a machine learning-based recommendation engine for personalized meal suggestions.
- Integrated the Gemini API to automate enrichment, validation, and standardization.

US AQI Analysis · Sep 2024 – Dec 2024
Tech: SSIS, SSAS, Python, MS SQL Server, Power BI · GitHub

- Built scalable ETL pipelines to process large-scale air quality datasets across 10 U.S. states.
- Developed data warehouse and OLAP cubes (SSAS) for multi-dimensional analysis.
- Performed trend analysis and generated actionable insights using Power BI.
- Used Python to model pollution trends and forecast AQI changes.

Simulated Credit Card Transaction System · Nov 2024 – Dec 2024
Tech: Apache Kafka, Spark Streaming, Hadoop, Power BI, Airflow · GitHub

- Designed real-time data pipeline to process credit card transactions using Apache Kafka & Spark Streaming.
- Built Hadoop infrastructure to store high-volume data and increased efficiency.
- Created Power BI dashboards for real-time fintech business insights.

SKILLS

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

CERTIFICATIONS

- TOEIC: 820 — IIG Vietnam — June 2024