THÁI MINH TÂN
SENIOR DATA ENGINEER

CONTACT

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SKILLS

Senior Data Engineer

AWS Certified Solutions Architect

Summary

Dynamic Senior Data Engineer with over 5 years of experience architecting and optimizing data pipelines, data lakes, data warehouses, and MLOps platforms on AWS for banking and enterprise clients. Proficient in big data frameworks (Hadoop, Spark, Kafka, OpenMetadata) and programming languages (SQL, Python, PySpark). Skilled in building scalable AWS infrastructure using Terraform and delivering innovative, customer-focused solutions, including OLAP systems, CDP platforms, and Agentic AI platforms. AWS Certified Solutions Architect and AI Practitioner with a proven ability to lead complex projects under tight deadlines.

Technical Skills

- **Cloud Platforms:** AWS (S3, Redshift, DynamoDB, RDS, Step Functions, Lambda, Glue, EMR, ECS, ECR, ALB, EC2, IAM, VPC, SNS, SQS, SES, DataSync, DMS, SageMaker)

- **Big Data Frameworks:** Hadoop, Spark, Kafka, Hive, OpenMetadata, Databricks

- **Programming Languages:** SQL, Python, PySpark

- **Infrastructure as Code:** Terraform

- **Data Management:** Data Lakes, Data Warehouses, ETL Pipelines, Data Modeling, Streaming Data, OLAP Systems, MLOps, CDP Platforms

- **AI Technologies:** Multi-Agent Systems, Knowledgebase Management, Prompt Engineering

- **Certifications:** AWS Certified Solutions Architect, AWS Certified AI Practitioner

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Professional Experience

Senior Data Engineer
TECHX, Ho Chi Minh City, VN
October 2024 – Present

- Lead the design and implementation of enterprise-grade data solutions, including:
    - OLAP Systems: Developed reporting systems, data lakes, and data warehouses on AWS to support business intelligence.

- o MLOps Platform: Built automated ETL workflows for banking clients, streamlining machine learning operations on AWS.

- o Data Platform with Databricks: Architected and deployed scalable data platforms on AWS for banking and enterprise clients.

- o Customer Data Platform (CDP): Designed and implemented CDP solutions to enable personalized customer experiences.

- o Custom Data Framework: Architected a proprietary SaaS-based data processing platform, comparable to Databricks, to deliver scalable, cloud-native data solutions for enterprise clients, enhancing data ingestion, transformation, and analytics capabilities.

- o Agentic AI Platform: Developed an internal chatbot platform leveraging multi-agent systems, knowledgebase management, and prompt engineering.

- Oversee cross-functional teams, ensuring alignment with project goals and customer requirements.

- Provide technical guidance and mentorship, fostering innovation and operational excellence.

Senior Data Engineer
TECHX, Ho Chi Minh City, VN
June 2022 – October 2024

- Designed and implemented scalable Data Warehouse and Data Lake systems using AWS services (S3, Redshift, Glue, EMR, Lambda, Step Functions), handling diverse data sources and complex pipelines for multiple client projects.

- Led migration of on-premises data systems to AWS, ensuring seamless integration and processing of heterogeneous data.

- Built no-code ETL frameworks for data transformation and orchestration, streamlining diverse data pipelines and improving operational efficiency.

- Deployed OpenMetadata for robust data management and governance across varied data ecosystems.

- Developed Databricks infrastructure tailored for banking clients, optimizing data workflows for high-volume, multi-source data processing.

- Created comprehensive documentation, architecture designs, and training platforms for stakeholders.

- Delivered high-quality solutions under tight deadlines, maintaining a customer-centric approach.

Data Engineer
VNG Joint Stock Company, Ho Chi Minh City, VN
July 2021 – June 2022

- Developed and optimized Data Warehouse and Data Lake systems using AWS services.

- Designed and implemented data models and pipelines to process large-scale data efficiently.

- Migrated legacy Data Warehouse systems to AWS, improving performance and scalability.

- Utilized Hadoop, Spark, and Hive for big data processing and automation.

- Built automated systems for data quality assurance and anomaly detection.

Data Engineer
Vietnam Maritime Commercial Joint Stock Bank, Hanoi, VN
July 2020 – July 2021

- Engineered data pipelines to process and transform big data per business requirements.
- Developed and maintained AWS-based Data Warehouse and Data Lake systems.
- Ensured data accuracy and reliability through proactive quality management and monitoring.
- Collaborated on data architecture solutions to support banking operations.

Software Engineer
Tuong Minh Software Solutions Co., Ltd, Ho Chi Minh City, VN
February 2019 – July 2020

- Developed front-end and back-end applications for smart learning, smart city, and education platforms.
- Integrated machine learning models into applications to enhance functionality.
- Designed and optimized databases to support application performance.

Certifications

- AWS Certified Solutions Architect
- AWS Certified AI Practitioner

Education

2015 - 2019	Management Information Systems
	SAIGON UNIVERSITY – HCMC, Vietnam

Additional Information

- Expertise in applying architectural principles to optimize designs based on customer needs.
- Proven track record of leading teams and delivering complex projects under pressure.
- Strong documentation and communication skills for technical and non-technical audiences.