

Chi-Thanh Le

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EDUCATION

National Economics University

B.S of Business Analytics

Hanoi, Vietnam

Sep 2019 - Sep 2023

Hanoi National University of Education, High School for Gifted Students

Specialized class in Science: Admission rate: 0.9%

Hanoi, Vietnam

Sep 2016 - May 2019

SKILLS

Programming language: Python, Java, Scala, Golang, JavaScript, Elixir.

Technologies: AWS (Glue, Athena, StepFunction, DynamoDB, SQS, S3, AuroraDB, EKS, .etc), Databricks, Sagemaker, Bedrock, Colibra, Docker, Kubernetes/EKS, Helm, Jenkins, ArgoCD, Terraform/Terragrunt, Grafana, Linux, GitlabCI, PostgreSQL, Neo4j, FastAPI, Apache Spark, Iceberg, Delta, Kafka, Arrow, Hadoop, Airflow, dbt, Pytorch, LlamaIndex, LangChain, ChromaDB.

Communication preferences: English (7.0 IELTS), Vietnamese.

WORK EXPERIENCE

Vietnam Technological and Commercial Joint Stock Bank

Senior, Data Engineer

Hanoi, Vietnam

July 2024 – Present, Full-time

- Design and implement the Global Transaction Banking's data mart, with both batch and streaming usecases.
- Manage, design the data model and execute the database migration plan of customer's data from data lake from Iceberg table to the transactional database (AuroraDB) for the biometrics centralized system which included real-time CDC events from different bank's Kafka sources, using AWS Glue, Lambda.
- Develop the bulk file serving workflows (and writers to S3 of landing zone) for Glue and Databricks jobs of several Iceberg and Delta tables/streaming sinks through bank's Managed File Transfer with PGP encrypted, while optimize the runtime by 80% without being OOM.
- Conducted the migration of several near real-time reports of Spark Structured Streaming on AWS Glue and Kafka/Iceberg sink to Databricks's environment (using Databricks Spark Job, Workflow and Delta Lake), with more than 1 million transactions per day.
- Contributing on building and development of the data pipeline frameworks and orchestration service for migrating 1000+ Iceberg table and Glue jobs from Glue Catalog to Databricks, while optimize the runtime of several jobs by approximately 40% and workflow start time by 60%.

Vietnam Technological and Commercial Joint Stock Bank

Machine Learning (AI) Engineer

Hanoi, Vietnam

Jan 2024 – Jun 2024, Full-time

- Successfully developed, deployed and in charge of reliability maintenance on Kubernetes (EKS) of 2 AI-based application for document formatted-kept translation and personal assistant/chatbot in the bank-wide (with BERT-based and a LLaMA 3) with CI-CD workflow based on ArgoCD, serving through vLLM on Sagemaker Endpoint and self-developed services based on AWS Lambda and EventBridge for application monitoring.
- Developed the proof-of-concept and productionalized plan for the near real time sentiment analysis pipeline of voice from call center using WhisperX (on CPU) and RoBERTa-based models, using AWS Lambda, SQS, Sagemaker, DynamoDB and EKS.
- Designed and developed the orchestration and observation frameworks for LLMops to manage 5+ production serving instances using AWS stacks (Lambda, EventBridge, API Gateway, EKS, etc.), which reduced the cost of operation on each environment to 60% in 3 months.
- Analyzed, developed and operationalized the offline map solution on Iceberg tables from internal and external sources for notification pushing, using Uber's H3, OpenSearch, AWS Glue and Athena; while serving to other services by REST API (FastAPI) hosted on EKS.

Stealth Start-up

Product/Business Analyst Consultant

Ho Chi Minh, Vietnam

Jan 2024 – May 2024, Part-time

- Defined the business model, KPI and roll-out strategies for new SaaS product and developed the PoC/ first MVP for the application in the analytics scope (database design, statistic models, recommendation systems), planned to serve for +10,000 users at release.

- Analyzed user past data and designed the user journeys, onboarding plan and application requirements for converting the leads on the current platform to users, while consulted the business on the design of workflows and recommendation system for the business requirements and user segmentation models.
- Hand-on developed of the first MVP for the recommendation system of the application, which expected to serve 1000+ users on the launch day, with around 500 to 1000 req/sec.

Vietnam Technological and Commercial Joint Stock Bank

Hanoi, Vietnam

Management Trainee Associate - Data Division

Jan 2023 – Jan 2024, Full-time

- **Data lineage platform:** Conducted various extraction solution for the logical plan of 1000+ AWS Glue jobs with a Scala service, while developing the change capture algorithm of data lineage to column level, stored in DynamoDB and S3 for integration from Glue Catalog to Collibra as the bank-wide centralize data governance platform.
- **Machine learning platform:** Enabled several use-cases of graph-based models by developing a high-availability Neo4j cluster on EKS and graph embedding ETL job for serving internal data science team. Also involved with researching a graph-based structural retrieval model from the transaction data of the bank, using PyTorch and PyArrow for utilize the Hadoop-based feature store.
- **User Workbench for Business Intelligence:** Collaborated with the end-users to design the conceptual and enterprise data model for digital banking domain for several source systems (Backbase, Adobe Analytics, Google Analytics, T24), while developing AWS Glue pipelines to enable +10 use-cases from different businesses units within 2 months.

EyeQ Tech

Ho Chi Minh, Vietnam

Product Executive

Feb 2022 – April 2022, Internship

- Identified customer pain points through the application of a continuous end-to-end product development workstream, while engaging the engineering team in the Scrum process to build an AI-based SaaS in accordance with requirements and documentation.
- Conducted social listening, with sentiment analysis from 10 data sources (social media, recruitment platforms, etc) by locally deploying a Selenium Python web crawler with LinkedIn and several Vietnamese news, with NLP tasks of cleaning and classification, to support the product team on market entry strategy's formation.

AWARDS AND CERTIFICATES

Scholarships: Scholarship for Excellent students of Advanced Education Program (top 5%), National Economics University (Jan 2021).

Awards: Bronze Award, National Online Vietnam Mathematical Olympiad, from Vietnam Ministry of Education (May 2016).