

Le Hoang Triet Thong

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EDUCATION:

Swinburne Vietnam, HCMC — Bachelor of Computer Science (AI Major)

Sep 2022 – Oct 2026

- **Relevant Coursework:** AI For Engineering, Applied Machine Learning, Data Science Principles, Foundation of Statistics, Intelligent System, Introduction to AI
- **Related Certifications:** AWS Certified AI Practitioner, AWS Certified Cloud Practitioner
- **Leadership:** Former Head Media of Vovinam SMACK Club (2022 – 2024), Head Media of ITea Lab (2024 - 2026).

EXPERIENCE:

AWS Study Group, HCMC — AI/ML Ambassador

Jan 2025 – Present

- Developed a strong foundational understanding of core AWS services and key cloud computing concepts.
- Practice in a series of hands-on labs to build practical skills, in order to build a comprehensive capstone project that integrated multiple AWS services later on, and actively participated in workshops and events to foster growth and collaboration within the AWS community.
- Studied the practical applications of leveraging Artificial Intelligence and Generative AI within the AWS ecosystem and services.

PROJECTS:

Focus Mode App — AI-Augmented Productivity Platform | Nuxt 3, Supabase (Postgres, pgvector, Auth), AWS (Lambda, API Gateway, S3, Bedrock), Python, ONNX

- **Implementation:** Engineered a 6-Lambda serverless AWS backend behind a guardrailed Bedrock Agent (Claude Haiku 4.5) for AI-driven task management, deploying a quantized DistilBERT (ONNX INT8) model packaged directly in Lambda for real-time emotion classification.
- **Outcome:** Shipped a fully working, production-live product on a 100% pay-per-invocation serverless stack — zero idle compute by routing every Lambda-to-database call through Supabase's REST API and running the quantized emotion model inline in Lambda.

Automated Translation Assessment System (FCAJ) | Nuxt 4, Pinecone (Vector DB), AWS (Lambda, API Gateway, DynamoDB, S3), Bedrock LLMs Agent,

- **Implementation:** Developed a full-stack RAG-based evaluation tool featuring a Nuxt 4 frontend and a serverless API Gateway; engineered a custom Pinecone vector database and sophisticated prompt chains to automate the manual grading process for FCAJ members.
- **Outcome:** Successfully transitioned manual checks to a 100% automated internal tool, achieving high-precision error detection through rigorous QA/QC of the LLM; optimized operational costs to \$15 per 1,000 assessments by migrating to an event-driven AWS Serverless architecture.

5G Network Quality & Predictive MLOps Dashboard | Vue 3, FastAPI, AWS (SageMaker, Lambda, S3, API Gateway), Docker, XGBoost, Supabase

- **Implementation:** Engineered an end-to-end serverless MLOps pipeline to process 1.5M+ rows of raw 5G telemetry data, utilizing AWS SageMaker Pipelines for automated spatial clustering (K-Means) and time-series forecasting (XGBoost/LSTM).
- **Outcome:** Designed a near-zero-cost (<\$0.50/month) event-driven architecture by wrapping FastAPI with Mangum for AWS Lambda, successfully delivering highly accurate 12-hour network predictions ($R^2 > 0.75$) via a secure, interactive Vue 3 dashboard.

AI-Powered Software Vulnerability Detector | React, FastAPI, Docker, Cloudflare, Machine Learning

- **Implementation:** Developed a hybrid vulnerability detection engine for PHP, Python, and JS by combining static rule-based analysis with an ensemble of 6 Machine Learning models (Random Forest, XGBoost, etc.) ; engineered a full-stack architecture featuring a React (Material 3) frontend and FastAPI backend, fully containerized using Docker Compose.
- **Outcome:** Successfully deployed the production-grade application on a local Mini PC environment using Cloudflare Tunneling for secure internet access; achieved a 98% detection accuracy (F1-score > 0.97) after processing and balancing 52,000+ samples from diverse security datasets.

TECHNICAL SKILLS

- **AI & Machine Learning:** Applied Machine Learning, Generative AI (Prompt Engineering Frameworks, RAG), LLM Orchestration (AWS Bedrock), Model QA/QC, Vector Databases (Pinecone).
- **Data Science & Analysis:** Python (NumPy, Pandas, Scikit-learn), R, Feature Engineering, Exploratory Data Analysis (EDA), Foundation of Statistics.
- **Cloud & DevOps (AWS):** SageMaker Pipelines, Lambda (Serverless), API Gateway, S3, DynamoDB, Docker & Docker Compose, Cloudflare Tunneling.
- **Database & Tools:** PostgreSQL, MySQL, Supabase, Git/GitHub, Jupyter Notebooks, Google Colab, KNIME, SPSS.
- **Frontend & Visualization:** Nuxt 4, Vue 3, Tableau, Power BI, AWS QuickSight, Looker Studio.

SOFT SKILLS & LANGUAGES

- **Soft Skills:** Critical & Analytical Thinking, Technical Documentation, Team Leadership (Media Head), Cross-functional Collaboration.
- **Languages:** Professional English Communication (IELTS 7.0, Duolingo English Test 110).