Tri Ho Dinh

DevOps Engineer | Ho Chi Minh City, Vietnam
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Education

University of Science, VNU-HCM — Ho Chi Minh City, Vietnam
B.Sc. in Information Technology (Information Security) — ***GPA: 3.84 / 4.0*** — *Sep. 2024 – Expected June 2028*
– **Availability: third-year student**; **part-time, 3–4 days/week** (from now); **full-time from Sep. 2027**.
– **Coursework:** Operating Systems, Computer Networks, Distributed Systems, Database Systems, Cryptography.

Experience

IaC Lab, Faculty of IT, HCMUS — Ho Chi Minh City, Vietnam
Undergraduate Researcher – Infrastructure-as-Code & CI/CD Gating — *Feb. 2026 – Present*
– Ran policy-as-code scanning (**Checkov**) over **Terraform, Kubernetes and CloudFormation** across **29 runners** and **1,346 rules** to catch misconfigurations before deployment.
– Integrated scan results into **CI/CD gates** via machine-readable **SARIF, CycloneDX/SPDX and JSON** outputs, alongside Bandit and secret scanning across **3,700+ test suites**.
– Now curating a large-scale, open **IaC dataset** from public repositories and building tooling to classify it by provider, resource type and pattern.

Meddies — Ho Chi Minh City, Vietnam
AI Engineer (Part-time) – Data Pipelines for Multilingual PII Detection — *May 2026 – Present*
– Built and operate a **large-scale generation pipeline** producing **1M** documents across 17 languages by orchestrating a pool of **9 LLM providers**.
– Automated **13 deterministic quality gates** (structure, offsets, script checks, **SHA-256 de-duplication**) with an auto-repair and re-validation loop, so only fully validated records reach training.
– Developing **meddies-faker**, a reusable Python package with country-aware providers for **20 locales**, versioned as the v3 data engine.
– Supports a compact **350M** PII model built for **on-premise** deployment at healthcare providers (0.827 mean micro-F1; co-first author, arXiv:2609.12544).

Projects

SmartATS – Microservice ATS Platform | *FastAPI, PostgreSQL, Azure, Observability* — July 2026 – Aug. 2026
– Designed a **10-service** backend with asynchronous ingestion pipelines and **54 REST APIs** on **Azure** (Blob Storage with short-lived SAS URLs).
– Built an **observability layer** tracking **p95/p99 latency**, throughput and compute cost per request, plus audit logging and RBAC/ABAC isolation.

Insurance Fraud Scoring Service | *Docker Compose, Caddy, Streamlit, XGBoost* — Feb. 2026 – Apr. 2026
– Containerized the scoring API and Streamlit UI with **Docker Compose**, fronted by a **Caddy** reverse proxy with automatic **HTTPS/TLS** and isolated internal networks.
– Shipped a reproducible, leakage-safe ML pipeline lifting fraud recall from **18.4% to 65.0%** (0.840 ROC-AUC).

Publications

L. U. Le*, **T. Ho Dinh***, C. Hoang, H. H. Ha. *"Meddies-PII: A Multilingual Framework for PII Extraction in Clinical De-identification."* arXiv:2609.12544, 2026. [arXiv] (*co-first author)

Technical Skills

Containers & Orchestration: Docker, Docker Compose, Kubernetes
IaC & CI/CD: Terraform, CloudFormation, Checkov, GitHub Actions, SARIF/SBOM pipelines, Git
Cloud & Networking: Azure (Blob Storage, SAS), AWS (EC2, S3), Caddy, Reverse Proxy, TLS
Observability & Systems: Latency/Cost Telemetry (p95/p99), Linux/Bash, POSIX
Programming: Python, Bash, C++, SQL; FastAPI, PostgreSQL
English: C1 (Oxford Placement Test)

Honors & Awards

RMIT Hackathon 2026 – **6th Globally**, **4th in Vietnam**, 3rd at Saigon South Campus (team of 4) — 2026
Academic Merit Scholarship – Faculty of IT, HCMUS (two consecutive years) — Jan. 2025 & Jan. 2026