Tri Ho Dinh

Cloud Security 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:** Computer Networks, Cryptography, Operating Systems, Distributed Systems, Database Systems.

Experience

IaC Lab, Faculty of IT, HCMUS — Ho Chi Minh City, Vietnam
Undergraduate Researcher – Policy-as-Code & IaC Security — *Feb. 2026 – Present*
- Studied automated IaC misconfiguration detection with **Checkov** across **29 runners** (Terraform, Kubernetes, CloudFormation) and **1,346 CKV security rules**.
- Examined **graph-based context analysis** to catch cross-resource and multi-tier IAM misconfigurations that isolated static scanners miss.
- Evaluated DevSecOps reporting (**SARIF, CycloneDX/SPDX SBOM**) and CI security gating with Bandit and secret scanners across **3,700+ test suites**.
- Now curating a large-scale, open **IaC security dataset** from public sources and designing its classification taxonomy as a reusable research benchmark.

Meddies — Ho Chi Minh City, Vietnam
AI Engineer (Part-time) – Data Privacy & Clinical De-identification — *May 2026 – Present*
- Build **PII detection and masking** for clinical conversations in **20 languages**, protecting patient identity, contact, ID and insurance data before downstream use.
- Developed a **privacy-preserving synthetic data pipeline** (**1M** documents, 13 deterministic validation gates incl. SHA-256 de-duplication) so models train without real patient records.
- Developing **meddies-faker**, extending Faker with country-aware providers that reproduce real-world name and attribute distributions for **20 locales**.
- Resulting compact **350M** model, designed for **on-premise** deployment at healthcare providers, reaches **0.827 mean micro-F1** vs. **0.658** for the strongest baseline (OpenAI Privacy Filter).

Projects

SmartATS – Secure AI Applicant Tracking System | *FastAPI, JWT, RBAC/ABAC, Azure* — July 2026 – Aug. 2026
- Enforced zero-trust access across **54 REST APIs** with fine-grained RBAC/ABAC and automated PII masking to prevent candidate enumeration.
- Secured uploads with PDF magic-byte verification and short-lived **15-minute SAS URLs** on Azure Blob Storage; added audit logging and an **80% multi-party consensus lock** on screening decisions.

Insurance Fraud Risk Detection & Triage | *Python, XGBoost, Docker Compose, Caddy* — Feb. 2026 – Apr. 2026
- Raised fraud detection recall from **18.4% to 65.0%** (3.5×) at **0.840 ROC-AUC** with configurable risk thresholds for triage workload.
- Containerized scoring services behind a **TLS-terminating Caddy reverse proxy**, isolating internal inference endpoints.

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

Security: Checkov, tfsec, Bandit, Secret Scanning, OWASP Top 10 / API Security, RBAC/ABAC, JWT, SBOM (CycloneDX/SPDX), SARIF, PII De-identification
Cloud & DevOps: Docker, Docker Compose, Kubernetes, Terraform, GitHub Actions (CI/CD), Azure, AWS (EC2, S3), Caddy, Linux/Bash
Programming: Python, C++, SQL, Bash, TypeScript/JavaScript; 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