

# LE NGUYEN VIET CUONG

## AI ENGINEER & FULL-STACK WEB DEVELOPER

Portfolio: [vcuong.com](http://vcuong.com)

Contact: [hello@vcuong.com](mailto:hello@vcuong.com) | +84 899 150 016 | Ho Chi Minh City, Vietnam

Profiles: [github.com/lengvietcuong](https://github.com/lengvietcuong) | [linkedin.com/in/lengvietcuong](https://linkedin.com/in/lengvietcuong) | [leetcode.com/u/VietCuong](https://leetcode.com/u/VietCuong)

---

### SUMMARY

---

Full-stack web and AI engineer specializing in Next.js and Python, with extensive experience in integrating and fine-tuning AI models. Programming for 5+ years and committed to delivering high-quality solutions.

### PROFESSIONAL EXPERIENCE

Jan 2025 – Present

#### ChongLuaDao (Cybersecurity Organization) – Tech Lead

- Led a team of 4 to build an AI-powered scam website detector with 300+ daily active users, winning 2 national awards ([Nhan tai Dat Viet](#) and [Make in Vietnam](#)).
- Integrated multiple frontier LLMs and a LoRA fine-tuned open-source model to balance cost and performance.
- Architected an entire agentic RAG system for a scam adviser AI combining vector-based search, keyword search, tool calling, and real-time web search, reaching over 3,000 users.
- Developed and deployed 3 full-stack web apps on a network of virtual private servers.
- Optimized legacy frontend code to boost Lighthouse performance from 60/100 to 100/100.
- Optimized legacy APIs to serve from thousands to millions of requests per day.
- Set up reCAPTCHA, Cloudflare, and rate limiting to prevent abuse.
- Configured monitoring & automatic alerts for all API endpoints.
- Served as the sole technical point of contact for 10 international partners.

Technologies: Next.js, SolidJS, TypeScript, Python, PostgreSQL (pgvector), Redis, MinIO, Docker

Products available at: [ai.chongluadao.vn](http://ai.chongluadao.vn), [zalo.me/chongluadao](https://zalo.me/chongluadao), [tracnghiem.chongluadao.vn](https://tracnghiem.chongluadao.vn), [baovethongtin.com](http://baovethongtin.com)

#### Lumist (SAT Learning Platform) – Full-stack Developer & AI Integrator

May – August 2025

- Built an AI-powered, science-backed vocabulary learning system for 1,000+ users.
- Integrated LLMs for personalized test performance analysis & question answering.
- Implemented a complete admin dashboard for data analytics, user & content management.
- Resolved a critical performance issue to achieve 5x faster page loads.

Technologies: Next.js, TypeScript, Supabase, Vercel (AI SDK)

Product available at: [lumist.ai](http://lumist.ai)

### PROJECTS

---

#### Examinai – AI-powered IELTS Learning Platform

- Integrated AI models across numerous modalities, including text generation, image understanding, text-to-speech, and speech-to-text.
- Architected writing and speaking assessment flows combining multiple LLMs, with official marking criteria, structured outputs, response streaming, and retry logic.
- Developed an agentic RAG system with an IELTS knowledge base for question answering.
- Curated more than 1,000 practice tests via web scraping.

Technologies: Next.js, TypeScript, Python, Supabase, Vercel (AI SDK)

Product available at: [examinai.vercel.app](http://examinai.vercel.app), [github.com/lengvietcuong/examinai](https://github.com/lengvietcuong/examinai)

## InfiniteCompute – E-commerce Store for GPUs with AI Advisor

- Built a fully-featured web with order tracking, reviews, coupons, authentication, admin panel, etc.
- Created an agentic RAG system for GPU recommendations combining vector-based search, product database interaction via tool calling, and real-time web search.
- Containerized all components via Docker to support easy reproducibility across environments.

Technologies: Vue.js, Python (FastAPI), PostgreSQL (pgvector), Docker, OpenRouter

Product available at: [infinitecompute.vercel.app](https://infinitecompute.vercel.app), [github.com/lengvietcuong/infinite-compute](https://github.com/lengvietcuong/infinite-compute)

## MatchFluence – Find Influencers using AI

- Developed the entire platform with a full database and AI pipeline in 3 days for a hackathon.
- Curated a dataset of 2,000 influencers using web scraping.
- Designed a recommendation system combining SQL filtering and AI evaluation.

Technologies: Next.js, TypeScript, Python, Supabase, Vercel (AI SDK)

Demonstration video: [youtube.com/watch?v=KAS3P1GcjUY](https://youtube.com/watch?v=KAS3P1GcjUY)

## RESEARCH

---

### A Novel Spam Review Detection Architecture Using Large Language Models (Published)

- Fine-tuned 3 LLMs using LoRA to detect spam reviews on Vietnamese e-commerce platforms.
- Improved accuracy of prior work from 88.54% to 92.12%, and F1 score from 73.49% to 78.86%.
- Analyzed and compared model architectures and sizes in detail (PhoBERT vs Llama 1B, 8B, 70B).
- Deployed models using serverless GPU inference for scalability and cost-effectiveness.

Published at: [science.fpt.edu.vn/FETC/Proceedings#flipbook-proceedingsFlipbook/51/](https://science.fpt.edu.vn/FETC/Proceedings#flipbook-proceedingsFlipbook/51/)

### Beyond URLs: Content-Aware Malicious Website Detection Using Multilingual BERT (Under Review)

- Trained 20 model configurations across transformers, traditional ML models, and hybrid ensembles, reaching 99.06% accuracy on a 68,954-sample test set.
- Surpassed results of 4 prior works, improving accuracy by up to 8.28%.
- Compiled and cleaned a large-scale dataset of 689,556 webpages from four real-world sources.
- Designed an HTML-to-Markdown preprocessing pipeline to reduce input length by over 96% while preserving key signals.
- Conducted parallel training on a network of cloud-based GPUs, optimizing cost and performance.

## AWARDS & RECOGNITION

---

- Featured on Vietnamese National Television (VTV) 4 times to share insights on AI & online scams.
- Achieved 3rd place in the Best Developers in Vietnam 2023 hackathon.
- Rewarded a LeetCode T-shirt for solving 750+ problems.
- Invited to speak at 4 prestigious events:
  - Mekong-US Partnership Policy Dialogue on Digital Economy (Bangkok, 2025)
  - YSEALI Roundtable on Digital Economy (Online, 2025)
  - Security Bootcamp by the Vietnam Internet Association (Hue, 2025)
  - FPT International Conference on Emerging Trends in Computing (Can Tho, 2025)

## EDUCATION

---

### Bachelor of Artificial Intelligence | Swinburne University of Technology

- 3.9/4 GPA. Achieved the Best Performance award (highest grade) in 12/20 courses, including Cloud Computing (AWS) and Intelligent Systems (AI agent development).
- Earned 25+ certificates in AI & software development from Google, HackerRank, LinkedIn.
- Scored 8.5 on the IELTS exam (C2 English Proficiency).

## REFERENCES

---

- **Mr. Ngo Minh Hieu (HieuPC)**, CEO of ChongLuaDao: [hieu.ngo@chongluadao.vn](mailto:hieu.ngo@chongluadao.vn)
- **Mr. Huong Dat Huy**, CTO of Lumist: [huy@lumist.ai](mailto:huy@lumist.ai)