

NGUYEN QUANG DUY

APPLIED AI ENGINEER | DATA WORKFLOWS | PRODUCT ENGINEERING

Ho Chi Minh City, Vietnam | 0902577827 | nquangd1510@gmail.com

Portfolio: <https://duytruyenthong.github.io/Alinguyen-portfolio/>

PROFILE

Computer Science graduate building source-grounded AI applications, SQL data pipelines and digital products. Public work includes a live portfolio guide with a recorded evaluation, a locally verified PostgreSQL warehouse, and a leakage-checked churn baseline. I bring enterprise troubleshooting and client discovery to scoping and testing technical work.

RELEVANT SKILLS

Applied AI: LLM APIs, source retrieval, prompt workflows, citation checks and regression evaluation.

Data and evaluation: Python, SQL, PostgreSQL, Upstash Redis, transactional batch loading, Pandas and scikit-learn.

Product engineering: JavaScript, TypeScript, React, Next.js, Node.js, GitHub Actions, debugging and testing.

Business context: Requirements discovery, commerce analytics, sales funnels and stakeholder communication.

SELECTED AI AND PRODUCT WORK

Portfolio AI guide | Live application and baseline evaluation

- Built approved-source retrieval and LLM API responses with server-controlled citations, rate limits and a labelled source-excerpt fallback.
- A 16-request live baseline returned 12 HTTP 200 responses and four service errors; 9 passed the original heuristics. This is not factual accuracy; the full post-fix evaluation is pending.

Traffic analytics pipeline | Locally verified PostgreSQL

- Built daily Upstash aggregate export, validated snapshots, transactional replay protection, corrections and SQL reporting views without exporting visitor identifiers.
- Ten tests cover load behavior and persistence. A real aggregate snapshot loaded and replayed in local PGlite PostgreSQL; public demonstrations are synthetic. Hosted deployment is pending.

KKBox customer churn baseline | Local prototype

- Built a snapshot-date feature pipeline and logistic-regression holdout baseline for customer churn exploration.
- Checked future-event exclusion with synthetic fixtures. On 970,960 official-data labels, a local within-cohort 75/25 stratified holdout reached 0.217324 log loss and 0.819295 ROC AUC. Features use a 2017-02-28 snapshot; this is not an out-of-time, leaderboard, production or business-impact result.

Vibecode Product Kit | Public developer tool

- Maintained an offline JavaScript CLI with Codex agent profiles, skills, templates and CI checks for reviewable product work.
- Public repository: github.com/DUYTRUYENTHONG/vibecode-product-kit. Adoption metrics are not claimed.

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PROFESSIONAL EXPERIENCE

iTechWX | Microsoft Technical Support Specialist | Apr 2025 - Present

Diagnose Microsoft 365 incidents across OneDrive, SharePoint, Exchange Online and Teams; reproduce symptoms, isolate causes, document evidence and coordinate escalations.

DUYTRUYENTHONG Agency | Founder and Operator | Feb 2024 - Present

Translate client goals into websites, content systems and commerce workflows. Build and test internal product prototypes and use Codex-assisted development with reviewable QA records.

NINA Web Service | Solution Consultant | Dec 2023 - Dec 2024

Gather requirements, define website architecture and workflows, and align client needs with delivery scope.

NINA Web Service | Web Developer | Jun 2023 - Dec 2023

Developed React and JavaScript features; debugged and tested interfaces; prototyped a retrieval-based support chatbot.

Amazing Tech | Junior Front-End Developer | Sep 2022 - Jan 2023

Supported responsive UI work, front-end refactoring, debugging and code-maintainability improvements.

EDUCATION AND LANGUAGES

Bachelor of Computer Science | Vietnamese-German University | 2021 - 2026

Selected coursework: Linear Algebra, Statistics and Discrete Mathematics.

English: Professional Working Proficiency | German: A2

EVIDENCE AND SCOPE

The portfolio guide is live; its published evaluation is a small authored baseline with failures retained. The PostgreSQL warehouse is verified locally with PGlite; hosted operation is pending. KKBox is a local within-cohort holdout. Customer adoption and commercial uplift are not claimed.

Evidence and reproducible reports: <https://duytruyenthong.github.io/Alinguyen-portfolio/evidence/>