

ĐINH MINH TRÍ

Senior Applied AI Engineer | Senior Full Stack Engineer

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PROFESSIONAL SUMMARY

Results-driven Senior Applied AI & Full Stack Engineer with over 6 years of experience architecting and deploying highly scalable, event-driven platforms and AI-integrated enterprise systems. Proven expertise in multi-agent orchestration, Retrieval-Augmented Generation (RAG) ecosystems, and real-time data streaming. Adept at driving end-to-end technical lifecycles—from conceptualizing complex system architectures to cloud-native production deployments.

WORK EXPERIENCE

SENIOR APPLIED AI ENGINEER | *Vinsmart Future — Vingroup*

Feb 2026 – Present | Ho Chi Minh City, Vietnam

Project: Enterprise Search (Internal AI Knowledge Base)

- Architected a highly scalable internal enterprise knowledge base leveraging RAG architecture, Hybrid Retrieval, Vector Search, and reranking models to significantly accelerate data discovery across SharePoint, OneDrive, and custom internal repositories.
- Designed end-to-end AI pipelines encompassing data ingestion, dense embedding generation, real-time query processing, access-control enforcement, and robust LLM observability using Langfuse.

Project: Vivipedia (Public AI Encyclopedia)

- Engineered a public-facing AI encyclopedia platform that autonomously drafts comprehensive knowledge articles from official state news sources, integrating a human-in-the-loop workflow for domain expert validation before publication.
- Built the underlying multi-agent orchestration system for source synthesis, citation tracking, and fact-checking.
- Collaborated cross-functionally with Data Science, Editorial, and Product teams to scale AI outputs into a reliable, high-traffic production platform.

Project: Clinical AI Suite (Healthcare Domain)

- Built Patient Summary, a production LLM service extracting structured clinical data (history, medications, allergies) from Vietnamese patient records — FastAPI on a hexagonal architecture with multi-agent section summarization (progression, problems, meds, vitals/labs, alerts).
- Developed Medical Note Reconstruction, a service parsing raw Vietnamese medical notes (outpatient, inpatient, emergency) into structured patient guidance: treatment instructions, home monitoring, nutrition and lifestyle, danger-sign warnings, and follow-up schedules.
- Established evaluation as an engineering discipline: golden datasets with evals running as a CI gate before every release, and every production error converted into a regression test case.

SENIOR FULL STACK ENGINEER | *The CrownX — Masan Group*

Aug 2025 – Feb 2026 | Ho Chi Minh City, Vietnam

Project: Logistics Core Modernization

- Spearheaded architectural migration of a nationwide platform from a legacy monolith to a highly decoupled, event-driven microservices architecture.
- Developed high-throughput data streaming pipelines using Apache Kafka and Python/Node.js, processing thousands of supply chain events per minute.

Project: Supply Chain Visibility Suite

- Constructed RESTful APIs and responsive dashboards, granting warehouse managers real-time visibility into inventory and nationwide order fulfillment.

- Achieved over 60% latency reduction and eliminated data synchronization bottlenecks by optimizing queries and deploying scalable Azure cloud infrastructure.

FULL STACK DEVELOPER | [CHEK Technology](#)

Sep 2022 – Aug 2025 | Remote

Project: VibeData Studio

- Led full-stack architecture for an AI-agent workspace. Utilized React, TypeScript, SSE, and Claude Agent SDK to autonomously generate governed data pipelines on Microsoft Fabric.

Project: My Branding Loyalty Platform

- Engineered a scalable backend handling millions of concurrent transactions using Django and Cassandra, paired with an SEO-optimized Next.js frontend.

Project: VPMilk Corporate Website

- Directed a cross-functional team of 3 developers to build the platform using Laravel, establishing rigorous CI/CD workflows and automated testing.

FULL STACK DEVELOPER | [Upwork \(Freelance\)](#)

Mar 2023 – Sep 2023 | Remote

Project: Bilingual Dictionary Ecosystem

- Developed a comprehensive bilingual application (Vietnamese-English), contributing to a 70% improvement in vocabulary acquisition metrics for active users.
- Optimized relational database schemas and advanced data fetching strategies, decreasing query response times and improving overall retrieval speed by 50%.

BACKEND DEVELOPER | [Upwork \(Freelance\)](#)

Feb 2021 – Sep 2022 | Remote

Project: Fitness Enterprise CRM

- Built custom operational management systems tailored for regional fitness and wellness centers, automating administrative tasks and increasing facility operational efficiency by 60%.

EDUCATION

Ho Chi Minh City University of Technology and Education

2014 – 2018

Bachelor of Electrical and Electronics Engineering

TECHNICAL SKILLS

AI & Machine Learning: Claude Agent SDK, RAG Architectures, Vector Search/Databases, Prompt Engineering, Langfuse, Multi-Agent Systems

Programming Languages: Go (Golang), Python, TypeScript, JavaScript, PHP

Frontend Development: React, Next.js, TanStack Query, Zustand, Tailwind CSS, shadcn/ui, Agentic UI Design

Backend Frameworks: FastAPI, Django, Node.js, Express, Laravel, Gin / Fiber (Golang)

Data Engineering: dbt, dlt, Microsoft Fabric, Apache Kafka

Databases: PostgreSQL, Cassandra, MySQL, MongoDB

Cloud & DevOps: Microsoft Azure (Entra ID, Functions, App Service, Key Vault), Docker, Kubernetes, CI/CD Pipelines, Nginx