Danny Pham

Senior Fullstack Engineer | AI Applications

Ho Chi Minh City, Vietnam · (+84) 376-157-187 · danny.vandp@gmail.com
linkedin.com/in/dangphamv · github.com/dangphamv · dannypham.is-a.dev

PROFESSIONAL SUMMARY

Fullstack engineer with 12 years of experience building web products end to end: React and Next.js on the front, Node.js and PostgreSQL behind it, plus the tests and CI around them. Spent six years at Tiki on the storefront and the partner mini-app platform. Since 2023 at Renn Labs, working remotely with a US team on AI features such as an agent chat assistant. In my own projects I build LLM systems that check the model's output instead of trusting it.

PROFESSIONAL EXPERIENCE

Senior Fullstack Engineer — Renn Labs *Oct 2023 – Present*
Remote · US-based company

- Built the chat assistant in **CQ 2.0**, an agent-first fundraising platform, on assistant-ui and the Vercel AI SDK. The agent shows plans, forms, and approvals as cards inside the chat, and it cannot delete or send anything until the user confirms it in that turn.
- Led the architecture of other Next.js apps (CQ, Dygest AI, Portal Distro) using React Server Components, Server Actions, and streaming SSR.
- Integrated OpenAI and Anthropic into product workflows: streaming chat, document summarization, and AI-assisted content tools.
- Optimized page load and bundle size across products with code splitting and image optimization, measured with Core Web Vitals.
- Built an accessible design system (Shadcn/UI, Radix, design tokens, Storybook) that other teams adopted, so new screens are assembled from shared parts instead of rebuilt.
- Set up Vitest and Playwright tests in CI and Sentry error tracking, so regressions are caught before release. Mentored junior engineers through code reviews and pairing and supported their promotions.

Senior Software Engineer — Tiki (Vietnam's leading e-commerce platform) *Jun 2016 – Dec 2022*
Ho Chi Minh City

- Designed and built the APIs for **Tini App**, Tiki's mini-app platform for third parties, and onboarded merchant partners onto it.
- Moved the storefront from jQuery to React and Next.js, focusing on bundle size and Time to Interactive, then led the Core Web Vitals work for SEO.
- Built an internal component library (Ant Design, Storybook) shared by the product squads, which shortened the handoff from design to development.
- Pushed for automated testing (Jest, React Testing Library) and CI/CD on GitHub Actions, so the team could release daily.
- Our team was named Team Champion of the Year (2018).

Junior Software Engineer — VNG Corporation *Jan 2014 – May 2016*
Ho Chi Minh City

- Built landing pages for flagship games and made them load faster; won the Web Developer Competition (2015) for the best teaser website.

SELECTED PROJECTS

Kịp — Bilingual daily IT digest from official sources · kip-wheat.vercel.app *2026 – Present*

Next.js 16 · NestJS · PostgreSQL · Turborepo · Claude Haiku/Sonnet · OpenAI · GitHub Actions · Neon · Render · Vercel

- Built a Turborepo monorepo with a Next.js BFF and a NestJS API that share zod contracts, plus OAuth, Free/Pro plans on PayOS, SSRF-guarded fetching, and a swappable Anthropic/OpenAI provider.
- A daily job pulls allowlisted sources (vendor blogs, GitHub releases, security advisories), dedupes them, and has an LLM summarize each item in English and Vietnamese. Because LLMs get versions and CVE numbers wrong, code checks every quote and figure against the source and falls back to the original excerpt if a retry fails.

PetZone — Pet hotel booking marketplace *2025 – Present*

NestJS · PostgreSQL · Supabase (Auth, RLS, Storage) · WebSockets · FCM · Next.js · Turborepo · AWS

- Designed and built the whole backend: a NestJS API (REST + WebSocket) over PostgreSQL with versioned migrations, whose Swagger docs are the contract for both mobile apps, and deployed it on AWS.
- Every table has row-level security policies for owners, providers, and admins; user requests run through RLS-scoped clients and role guards protect each route. The API covers the full booking lifecycle (orders, check-in photos, in-stay reports, reviews), owner–hotel chat, push notifications, and provider payouts.

AI Gateway — Multi-tenant LLM gateway for OpenAI and Anthropic clients *2026 – Present*

TypeScript · Hono · PostgreSQL + pgvector · Redis · Docker · OpenTelemetry · Langfuse · k6 · Neon · Render

- Built a drop-in gateway: apps change only their base URL, and each request is routed by intent, checked against a per-tenant budget kept atomic with Redis + Lua, cached, and traced, behind retries, circuit breakers, and fallbacks.
- Embedding similarity thresholds didn't hold up on Vietnamese, so I added an LLM verifier for semantic cache hits. Load-tested failover with k6 through a simulated provider outage, and compared routing plus caching against an all-large-model baseline on cost and answer quality.

Văn Bản Xanh — Vietnamese legal Q&A on RAG · van-ban-xanh.vercel.app *2025 – Present*

Next.js · FastAPI · PostgreSQL + pgvector · BM25 · Claude Haiku · Langfuse · Neon · Render · Vercel

- People ask in everyday words, but laws use statutory language, so an LLM rewrites the question first. Dense (pgvector) and BM25 results for both versions are merged with RRF, and every change is scored on an eval set before it ships.
- Every claim has to cite a quote that the server checks word for word against the law; if none checks out, it refuses. Runs on free-tier hosting with a daily LLM spend cap, PII redaction, and eval gates in CI.

CORE COMPETENCIES

Frontend: TypeScript, React, Next.js (App Router, RSC), React Native, Tailwind CSS, Shadcn/UI, Zustand, TanStack Query

Backend & APIs: Node.js, NestJS, Express, FastAPI, PostgreSQL, Redis, Prisma, Supabase, REST, GraphQL, WebSockets, SSE

Engineering: API and data modeling, caching, rate limiting, retries and circuit breakers, web performance, accessibility

AI / LLM: OpenAI, Anthropic, Vercel AI SDK, assistant-ui, LangGraph, RAG, embeddings, pgvector + BM25, LLM evals, Langfuse, MCP

DevOps: AWS, GitHub Actions, Docker, Vercel, Render, Turborepo, OpenTelemetry, Sentry, Vitest, Jest, Playwright

EDUCATION & LANGUAGES

Bachelor of Science in Computer Science — University of Science, VNU-HCM *2009 – 2013*

Languages: English (professional working proficiency), Vietnamese (native)