

Thien Hung Pham

Software Engineer Intern — Full-Stack & Backend Developer Intern

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[Portfolio](#) — [GitHub](#) — [LinkedIn](#)

English C1 Level , Vietnamese Native

Professional Summary

Driven **Software Engineer** with expertise in **backend design** and **high-performance architecture**. Skilled in **scalable applications**, **infrastructure optimization**, and **solving complex challenges**. Seeking an **internship at a reputable software company** to refine skills and contribute to impactful projects.

Full-Stack Projects (Available on GitHub)

Event Advertisement and Management Platform

A dynamic event-sharing platform with a social app-like experience, featuring event advertising and Stripe-powered placement.

- Technical Summary: **Optimized data fetching** and **full-text search recommendation** system using React Query and Next.js `unstable_cache`, and using **cursor-based pagination**. Deployed in `ap-southeast-1` (`sin-1`) for **low-latency API responses across Asia**.

- Tech Stack: NextJS, TypeScript, Prisma ORM, Supabase, Clerk, Shadcn UI, Stripe, React Query, Leaflet, Quill

- Development & DevOps: Vercel, Jest, RTL, GitHub Actions

Slackzz Clone

A Slack-like real-time communication platform supporting channels, DMs, video calls, and user-pro Subscription.

- Technical Summary: **Optimized for instant messaging** and **real-time interactions** via Convex DB, WebSocket. Powered up a complex data model and Convex backend for a seamless user experience.

- Tech Stack: NextJS, Convex, WebSocket, Redis, Livekit, Redis, OAuth 2.0, Prisma ORM, Shadcn UI

- Development & DevOps: Vercel, RTL, Jest, GitHub Actions

Apple Website Clone

A high-performance e-commerce platform with secure payments, real-time cart management, and a geolocation-based address picker for precise order placement.

- Technical Summary: Implemented **OWASP-recommended security practices** and **optimized backend**, reducing response times by **40%** through **caching** and **query optimization**. Built a **scalable infrastructure** with **Kubernetes**, **AWS EKS**, and **Terraform**. Developed **auth session** management using device ID to track logged-in devices and enable **forced logout** across all devices.

- Tech Stack: MongoDB, React19, Vite, ExpressJS, NodeJS, Zustand, Stripe, TailwindCSS, React Query, Socket.io, Redis (with redis Pub/Sub)

- Development & DevOps: GitHub Actions, Playwright, Kubernetes, Terraform, Docker

On-Research: Hardcore Projects and Their Prospects

Researching and developing a **NoSQL database** in Rust as a foundation for a **vector search engine**, ultimately evolving into a **vector database**. This hands-on approach strengthens my expertise in **AI infrastructure** and paves the way for my final goal: a **custom deep learning framework**, while continuously refining my knowledge through **scientific and technical research**.

Soft Skills

Self-driven problem solver with **strong communication** and **collaboration skills**. Adaptable, fast learner, and familiar with **Agile workflows**.

Education

Ly Tu Trong College, Ho Chi Minh

Associate Degree in IT (2022–2026) – Internship Required

Aiming to transfer to HCMUTE for a Bachelor's in Software Engineering.