# Thien Hung Pham
**Intern Full-Stack Engineer (Backend-Focused)**

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Portfolio — GitHub — LinkedIn

*English* C1 Level , *Vietnamese* Native

## Professional Summary

Driven **Full-Stack Software Engineer** specializing in backend system design and high-performance architecture. Experienced in **building scalable and maintainable applications**, optimizing infrastructure, and solving complex technical challenges. **Seeking a remote internship** to further develop skills and contribute to impactful projects. Also, having the ambition to proceed to the world of AI.

## 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**. Data modification integrating with **Optimisitc UI**.

- Tech Stack: Next.js, TypeScript, Prisma ORM, Supabase, Clerk Auth, Shadcn UI, Stripe, Axios, 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. Power up **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: Implements **OWASP-recommended security practices**, optimized frontend performance with **caching**, and **scalable backend architecture**. Capable of handling **production-scale loads with Kubernetes and Terraform**.

- Tech Stack: MongoDB, React19, Vite, ExpressJS, NodeJS, Zustand, Stripe, TailwindCSS, React-Query, Socket.io, Redis

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

## On-Research: Hardcore Projects and Their Prospects

Planning to **build a NoSQL database** in Rust, enabling me to **develop a vector search engine** and transform my database into a **vector database**. These projects pave the way for my transition into **AI infra**, culminating in my final project: a **custom deep learning framework**. All are **built in Rust**, a performant and memory-safe programming language, I achieve this by continuously **pushing my upper limit** and **reading useful scientific and technical articles**.

## Soft Skills

Computer skills, time management, adaptability, fast learning and multitasking ability, and collaborative traits.

## Education: Internship Required for Associate Degree Completion

**Ly Tu Trong College, Ho Chi Minh**

*Associate Degree in Information Technology* (2022 – 2026)

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