

# Thien Hung Pham

Software Engineer Intern — Full-Stack & Backend Developer

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

English C1 Level , Vietnamese Native

## Professional Summary

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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)

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### Event Advertisement and Management Platform

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

- Key Features: 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.

- Key Features: Optimized for instant messaging and real-time interactions via Convex DB, WebSocket. Designed an optimized Convex backend and data model for seamless real-time interactions.
- 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.

- Key Features: 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

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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

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

## Education

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### Ly Tu Trong College, Ho Chi Minh

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

Pursuing an Associate Degree in IT, with plans to transfer to HCMUTE for a Bachelor's in Software Engineering.