

Pham The Duy

Software Engineer

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"True technological excellence is measured not by complexity, but by the real value and positive impact it brings. My aspiration is to build systems that become foundations for sustainable business growth and exceptional user experiences."

Education

Hanoi University of Industry
Software technology

Very Good (GPA: 3.48)
2017 - 2021

Technical Proficiency

🔗 Backend Architecture	Advanced
🔗 Cloud & DevOps	Intermediate
🔗 Distributed Systems	Intermediate
🔗 Frontend Development	Basic
🔗 AI / LLM Engineering	Basic

Technical Skills

Core

- OOP, SOLID, System Design, Solution Consulting, Code Review & Optimization

Database

- SQL Server, MariaDB, PostgreSQL, Redis, MongoDB

BackEnd

- Primary: C# (.NET)
- Secondary: Python (FastAPI, Pyramid), Node.js (Express.js, NestJs)
- Microservices Architecture

FrontEnd

- TypeScript, Angular, React, Vue / Nuxt

Cloud & DevOps

- Cloud: Azure, AWS
- CI/CD: GitHub Actions, Azure DevOps, ArgoCD
- Containers: Docker, Kubernetes (YAML)
- Observability: LGTM stack
- Nginx

Distributed Systems

- Transfer protocols: RESTful API, gRPC
- Cache: Memcached, Redis
- Message broker: RabbitMQ, Redis

AI / LLM

- RAG Pipelines
- Multi-Agent Architectures
- Tool-Calling LLM Systems (MCP)
- Vector Search (pgvector)
- LLM Observability (Langfuse)

Languages

English: TOEIC 650

Work Experiences

Jun 2024 - Present TEKAI VIETNAM J.S.C - Software Engineer

Apr 2022 - Jun 2024 VERP TECHNOLOGY SOLUTIONS JSC - Fullstack Developer

Dec 2020 - Apr 2022 LTS GROUP COMPANY - Backend .NET Developer

Projects

MYSTRAND PROJECT

TEKAI VIETNAM J.S.C

Backend Developer

Jun 2025 - Present

An International real estate management platform. The system handles property listings across multiple European markets.

Technologies: AWS, Python, Pyramid, MariaDB,...

Responsibilities:

- Developed backend services for property listing management and cross-market data synchronization.
- Implemented Kivi API integration for automated real estate data synchronization from Finnish market.
- Integrated Sowise platform for automated document generation, storage, and electronic signing workflows in real estate transactions.
- Collaborated with clients and product teams to refine system requirements and deliver backend features
- Wrote unit tests and technical documentation (Notion). Integration third-party: Kivi, Sowise, Fotocasa, Microsoft Graph API,...

GENTEKAI

TEKAI VIETNAM J.S.C

AI Systems Engineer

Feb 2025 - Oct 2025

AI-Powered HR & Workforce Management Platform

Technologies: FastAPI, Node.js, PostgreSQL (pgvector), MCP, Langfuse, Slack API

Responsibilities

- Designed and built a multi-agent AI system using a supervisor-based routing pattern with four specialized agents (HR, Timesheet, Employee, General).
- Built an MCP server exposing 38+ AI tools enabling LLM agents to perform controlled database operations.
- Implemented a RAG pipeline using pgvector for semantic search across internal documents (PDF, Word, Excel, OCR images).
- Implemented a real-time streaming architecture using async generators and Server-Sent Events (SSE) to support concurrent multi-session interactions.
- Implemented RBAC authentication, Slack bot integrations, and full-pipeline observability using Langfuse.

SMARTHEALTH

TEKAI VIETNAM J.S.C

Fullstack Developer / Solution Consultant

Sept 2025 - Jan 2026

Healthcare patient engagement platform designed to improve appointment adherence and communication.

Technologies: Turborepo, FastAPI, PostgreSQL, Nuxt (Vue), OpenAI API, Google Maps API

Responsibilities:

- Designed system architecture and clinical workflow automation in collaboration with healthcare providers.
- Developed an AI-driven reminder system generating personalized SMS and email outreach
- Implemented a predictive risk scoring engine to detect potential appointment no-shows.
- Ensured HIPAA-compliant data handling with PHI encryption, audit logging, and RBAC (JWT)
- Built analytics dashboards and a generic data import system for Excel/CSV datasets.
- Optimized Google Maps distance calculations through batching and caching, reducing API costs by ~60%.

FOXDO PROJECT

TEKAI VIETNAM J.S.C

FullStack Developer

Jun 2024 - Jul 2025

Home renovation platform that simplifies and expedites the selection of reliable contractors.

Technologies: Azure, .NET 8, Angular, SqlServer, SignalR,...

Responsibilities:

- Handled multiple responsibilities including development, debugging, and infrastructure setup.
- Built a real-time chat service using SignalR
- Optimizing and scaling down Azure resources to improve cost efficiency.
- Deploy and manage cloud-based infrastructure and services on Azure using Azure DevOps pipelines.
- Joined regular meetings with clients and teamlead to align on project requirements and progress.
- Integrate third-party: Hubspot, Stripe, Netvisor,...

ERP PROJECT

VERP TECHNOLOGY SOLUTIONS JSC

FullStack Developer

Apr 2022 - Jun 2024

All-in-one integrated software with necessary modules for business management.

Technologies: NET 7, Angular, SqlServer, SignalR, Redis, gRPC,...

Responsibilities:

- Designed and implemented the HR timekeeping module for attendance and shift management.
- Implemented real-time notifications using SignalR for instant system updates.
- Applied Redis caching and distributed locking to optimize performance and handle concurrent operations.
- Built gRPC-based communication between internal modules for high-performance service interaction.
- Contributed to multiple core ERP business modules and performed code reviews.

ABBANK AUDIT SERVICE

LTS GROUP COMPANY

Backend .NET Developer

Dec 2021 - Apr 2022

Audit scheduling and monitoring service for large microservice systems.

Technologies: .NET 6, SqlServer, RabbitMQ, gRPC, BPMN 2.0

Responsibilities:

- Developed backend services for audit scheduling and monitoring workflows.
- Implemented messaging and service communication using RabbitMQ and gRPC.
- Collaborated with business stakeholders to analyze feature requirements.
- Wrote unit tests and maintained service reliability.

LSX STREAMING PROJECT

LTS GROUP COMPANY

Backend .NET Developer

Dec 2020 - Dec 2021

Streaming platform supporting live content delivery and management for game publishers.

Technologies: .NET 6, PostgreSQL, RabbitMQ, Docker

Responsibilities:

- Owned the CMS back-office service used by administrators to manage users, transactions, and streaming activities.
- Implemented event-driven data synchronization using RabbitMQ to replicate data from runtime services into a dedicated reporting database.
- Built REST integrations with core services to execute administrative operations while maintaining data consistency.
- Designed data models and queries to support analytics dashboards and operational reports..