PHAM TRUNG

BACKEND SOFTWARE ENGINEER | PHP / SYMFONY | .NET

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Live Portfolio: https://api.ptdev.click/web/

PROFESSIONAL SUMMARY

Backend Software Engineer with 1+ year of professional experience developing and maintaining production-grade, multi-tenant POS platforms for the US market. Experienced in financial and business-critical systems, including payment integrations, gift cards, cashback, staff payroll, financial reporting, and event-driven data synchronization. Strong hands-on experience with PHP, Symfony, PostgreSQL, Redis, RabbitMQ, Kafka, and Kubernetes, with additional experience in C#, ASP.NET Core, React, and TypeScript. Graduated in Software Engineering with Excellent Academic Standing (GPA: 3.61/4.00).

TECHNICAL SKILLS

Backend	PHP 8.4/8.5, Symfony 8, API Platform, Doctrine ORM, Symfony Messenger, C#, ASP.NET Core 9, EF Core
Data & Caching	PostgreSQL 17/18, Redis, Valkey, SQLite
Messaging	RabbitMQ, Kafka, Debezium CDC, Redpanda Connect, SignalR
Frontend & Mobile	React, TypeScript, JavaScript, Vite, .NET MAUI, WebRTC
DevOps & Cloud	Docker, Kubernetes, Helm, Argo CD, Jenkins, GitHub Actions, AWS S3, LocalStack
Monitoring & Security	Prometheus, Grafana, Loki, Alertmanager, Keycloak, OAuth 2.0, OIDC
Practices	DDD, REST API design, event-driven architecture, idempotency, offline-first synchronization, PHPUnit, PHPStan, code review

PROFESSIONAL EXPERIENCE

Fastboy Marketing

Backend Developer | August 2025 – Present

Developing backend services for Volt POS, a multi-tenant point-of-sale platform serving nail salons and restaurants in the United States.

Financial Systems & Payment Processing

- Integrated an external gift card service through GraphQL, implementing transactions, refunds, reversals, top-up limits, and offline synchronization.
- Developed idempotent cashback earn and reversal workflows for order reopening, cancellation, refunds, and partial refunds.
- Implemented business logic to maintain consistency across orders, payments, and gift card transactions.

Payroll & Financial Reporting

- Developed staff payroll calculations supporting commission-based, fixed salary, and hybrid compensation models.
- Implemented payroll rules for tips, supply fees, cleanup fees, days-off validation, and configurable pay-period settings.
- Built store and staff income reports covering taxes, adjustments, partial refunds, service fees, cash discounts, and payment-method breakdowns.
- Developed a configurable report builder with data-driven pages, blocks, panels, and verification against legacy reports.

Event-Driven Architecture & Data Synchronization

- Implemented offline-to-cloud data synchronization using Debezium CDC, Kafka, and Redpanda Connect.
- Developed event validators and conflict-resolution mechanisms based on natural keys.
- Built asynchronous background processing using RabbitMQ and Symfony Messenger; applied idempotency and transaction-aware processing.

Restaurant POS & Platform Development

- Developed APIs for floor plans, table management, dine-in, takeout, kitchen workflows, and order history.
- Implemented device authorization and approval workflows using Keycloak and OIDC.
- Built order lifecycle features including Hold, Fire, checkout claims, and audit history.
- Implemented role-based permissions, merchant onboarding validation, device restrictions, and monitoring for background-task failures and synchronization conflicts.

Full-Stack & Infrastructure

- Developed React and TypeScript portal interfaces for configurable reporting and order management.
- Contributed to Kubernetes deployments and GitOps infrastructure using Helm and Argo CD; integrated AWS S3 storage configuration and Keycloak authentication.

Environment: PHP 8.4/8.5, Symfony 8, API Platform, Doctrine ORM, PostgreSQL 18, Redis/Valkey, RabbitMQ, Kafka, Debezium, Redpanda Connect, React, TypeScript, Docker, Kubernetes, Helm, Argo CD, Keycloak.

Empower SC Company Limited

Information Technology Intern | July 2025 – August 2025

- Participated in IT and software development activities as part of the engineering team.
- Gained practical experience with professional software development workflows and team collaboration.

FAST Business Management Software Joint Stock Company

Software Developer Intern | November 2024 – June 2025

- Participated in software development activities at a business management software company.
- Gained practical experience in software engineering, development workflows, and collaborative work within a software team.

PERSONAL PROJECTS

SocialMauiApp — Full-Stack Social Networking Platform

Solo Developer | February 2025 – Present

Showcase: github.com/PhamTrung1204/SocialMauiApp-Showcase | Live Demo: api.ptdev.click/web/

Designed and developed a full-stack social networking platform with a centralized ASP.NET Core backend, native Android application, and responsive web client.

- Implemented authentication with email verification, password recovery, JWT access and refresh tokens, and session revocation.
- Developed feeds, posts with media, likes, bookmarks, threaded comments, hashtags, search, and friend requests.
- Built real-time messaging with SignalR, file sharing, stickers, voice messages, and one-to-one WebRTC video calling.
- Integrated AI chat through OpenAI, Gemini, and Meta model adapters.
- Implemented offline-first mobile feed synchronization using SQLite, cursor-based pagination, and tombstones; added Firebase push notifications with durable retry processing.
- Developed administrative tools for content moderation and account management.

Environment: C#, .NET 9, ASP.NET Core, .NET MAUI, EF Core, PostgreSQL 17, SignalR, Redis, WebRTC, Firebase, Docker, GitHub Actions, Kubernetes, Helm, Argo CD, Prometheus, Grafana, Loki.

ptdev-gitops — Personal Kubernetes & GitOps Platform

Solo Developer | October 2026 – Present

- Designed and maintained a private GitOps repository for deploying multiple applications.
- Implemented Argo CD App-of-Apps architecture with isolated AppProjects and Helm-based deployments.
- Configured development and production environments with Jenkins-driven image version updates.
- Deployed PostgreSQL and Redis with namespace isolation and NetworkPolicies; automated TLS provisioning using cert-manager and Let's Encrypt.

Environment: Kubernetes, Helm, Argo CD, Jenkins, PostgreSQL, Redis, cert-manager.

EDUCATION

University of Economics Ho Chi Minh City (UEH)

Bachelor's Degree in Software Engineering | Graduated: October 2026

GPA: 3.61/4.00 | Academic Classification: Excellent

ACHIEVEMENTS & ACTIVITIES

- Participated in the Vietnam Student Olympiad in Informatics — December 2024.

LANGUAGES & CERTIFICATIONS

English

- VSTEP B1 — Four skills: Listening, Speaking, Reading, and Writing.
- TOEIC Listening & Reading: 560/990 (Listening: 300, Reading: 260); test validity: August 14, 2024 – August 14, 2026 (expired).

Vietnamese: Native