

Pham Duc Long

Solution Architect · Senior Backend Engineer

13+ years · 6 companies · Germany & Vietnam · AWS · PSM I certified

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Solution Architect and Senior Backend Engineer with 13+ years designing scalable, high-traffic systems and cloud-native architectures — PHP (Laravel, Symfony, Yii), Node.js/NestJS and Python. AWS Certified Developer, Spryker Foundation Developer and Professional Scrum Master I. I lead system design and solution architecture across microservices and REST/GraphQL APIs on AWS, Docker and Kubernetes, own polyglot data layers (MySQL, PostgreSQL, MongoDB), and mentor engineering teams across startups and enterprise projects in Germany and Vietnam.

CAREER HIGHLIGHTS

- Architected an institutional-grade crypto analytics platform unifying 8+ on-chain & market-data providers behind a dual-database core.
- Scaled a Symfony rental platform to high monthly transaction volumes, backed by 200+ automated tests.
- Cut API response times 40% while leading a 10-person team on an education platform serving thousands of users.
- Modernized enterprise Symfony stacks (PHP 7.4 → 8.2) and refactored 5,000+ lines of legacy code across municipal-utility platforms.

CORE SKILLS

BACKEND	PHP (Laravel, Symfony, Yii) · Node.js · NestJS · Python
FRONTEND	React.js · Next.js · Vue.js · Nuxt.js · Angular · TypeScript
DATA	MySQL · PostgreSQL · MongoDB · Redis
API & INTEGRATION	REST · GraphQL · WebSockets · OAuth · Third-party integrations
DEVOPS & CLOUD	AWS · Docker · Kubernetes · CI/CD · Terraform · Nginx
MESSAGING & OBSERVABILITY	RabbitMQ · ELK (Elasticsearch, Logstash, Kibana) · Sentry
WORKFLOW & QA	Git / GitHub / GitLab · Jira · Agile / Scrum · PHPUnit · JMeter · Load balancing
CONSULTING	System architecture · Wireframing · User-flow optimization · Business strategy
LANGUAGES	English · Vietnamese

FEATURED PROJECT

★ Crypto Analytics & Token Transparency Platform

Kobizo · May 2025 - Present

- Architected an institutional-grade token rating and on-chain analytics platform aggregating 8+ market-data providers (CoinGecko, CoinMarketCap, DeFiLlama, BitQuery, EVM scanners).
- Designed a dual-database core (MongoDB for document-shaped token data + PostgreSQL for transactions/audit) with an isolated ingestion store so a slow provider never blocks core reads.
- Built a schema-driven, AI-assisted transparency-scoring engine with a full external-call audit trail for reproducible, defensible ratings.
- Hardened security for institutional customers: MFA-backed AWS access (aws-vault), zero static keys, automated PII sanitization, PHPStan + Composer-audit CI gates.

STACK PHP 8.2 · Laravel 11 · MongoDB · PostgreSQL · Redis · Nuxt 3/4 · AWS EC2/S3 · Docker · Supervisor · GitHub Actions

Technical Lead

Kobizo · Remote · Germany

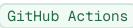
May 2025 - Present

Solution architecture for an institutional-grade crypto analytics & token-transparency platform (featured above) — a dual-database core, 8+ on-chain/market-data integrations, a schema-driven AI rating engine and security hardening for institutional customers.

► Crypto Analytics & Token Transparency Platform

Web3 / on-chain analytics

- Aggregated 8+ market-data & on-chain providers behind an isolated ingestion store so a slow source never blocks core reads.
- Designed a dual-database core (MongoDB + PostgreSQL) with tiered caching and async workers for reliability at scale.

STACK         

Fullstack Engineer

Make better GmbH · Lübeck, Germany

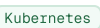
Nov 2023 - May 2025

Designed, developed and maintained RESTful APIs using Symfony and API Platform — improving system communication and data integration while refactoring legacy code to enhance maintainability and reduce technical debt.

► SmartCity — Smart City Application for Duisburg

Team of 3

- Designed and implemented API endpoints for charging stations, parking-space management, defect reporting, fuse stations, language translation and push notifications — streamlining urban infrastructure services.
- Built and executed unit tests with PHPUnit, validating core functionality before deployment.
- Provided technical consulting and collaborated directly with clients to align development with business needs.

STACK         

► ConsumerHub — ERP & CRM Integration for Municipal Utilities

Team of 5

- Upgraded core technologies (PHP 7.4 → 8.2, Symfony 4.4 → 6.4, API Platform 2.5 → 2.7), ensuring system security and long-term support.
- Developed RESTful APIs integrating ERP, CRM, PIM, MAM and accounting systems, automating business workflows.
- Refactored and optimized 5,000+ lines of legacy code, improving efficiency and reducing debugging time.

STACK        

Senior PHP Developer

NFQ Asia · Hanoi, Vietnam

Jun 2022 - Aug 2023

Designed and developed a complex web application ensuring security, scalability and high performance — refactoring legacy code for readability and maintainability, resolving critical stability issues, and implementing automated tests to optimize reliability and deployment.

► Roadsurfer — Online Camper Rentals & Lifestyle Camping

Team of 4 (7-10 members each)

- Built and maintained a Symfony-based rental platform for campervan bookings and camping spots, handling high monthly transaction volumes.
- Implemented 200+ automated unit and integration tests with PHPUnit.
- Debugged and resolved 100+ complex issues in legacy code, improving platform performance and user experience.
- Authored 50+ pages of technical documentation, standardizing practices and improving cross-team collaboration.

STACK           

INTEGRATIONS     

Technical Leader

Edutalk · Hanoi, Vietnam

Mar 2020 - Jun 2022

Led a 10-person team designing and developing web and mobile platforms for educational services, supporting thousands of users and internal staff.

► Edutalk — Web & Mobile Platform for Educational Services [↗](#)

Team of 10

- Designed and developed a centralized API system (Laravel + Lumen) supporting multiple clients across web and mobile applications.
- Optimized system architecture, reducing API response times by 40% and improving overall platform performance.
- Led data analysis and system design, ensuring efficient database structures for customer registration, staff management and educational-service transactions.
- Provided technical mentorship, coaching 5+ developers and improving team efficiency through knowledge sharing.

STACK [Laravel](#) [Lumen](#) [Vue.js](#) [React.js](#) [Angular](#) [Node.js](#)

Startup Engineer

Alusoft · Hanoi, Vietnam

Jan 2017 - Dec 2019

Developed backend systems and APIs for business-management and educational platforms serving thousands of users.

► GCP — Cyber Game Management Software [↗](#)

Team of 2

- Designed and developed backend architecture using Yii 1 and MySQL, enabling seamless cyber-game business management.
- Built and integrated API infrastructure for launcher PCs, ensuring smooth communication between backend systems and gaming clients.

STACK [Yii 1](#) [MySQL](#) [Socket.io](#)

► Vietjack — Educational Platform (Outsourced) [↗](#) (hoidap)

Team of 3

- Built backend and frontend (Laravel, MySQL, React.js) supporting thousands of students and educators.

STACK [Laravel](#) [MySQL](#) [React.js](#)

Backend Developer

MOG Vietnam · Hanoi, Vietnam

Dec 2014 - Dec 2016

► Appsync — Mobile App Installation & Sync System

Team of 4

- Built backend dashboards and pre-compute jobs, enhancing app synchronization and installation processes.
- Developed and maintained backend services (Yii 1, Python, Node.js) integrating MySQL, MongoDB, Elasticsearch and Logstash for scalable data management.

STACK [Yii 1](#) [Python](#) [Node.js](#) [MySQL](#) [MongoDB](#) [Elasticsearch](#) [Logstash](#)

Magento Developer

SmartOSC · Hanoi, Vietnam

Mar 2013 - Dec 2014

► Magento e-commerce platforms

- Coded and implemented requested features for Magento-based e-commerce platforms.
- Developed custom extensions — Promotional Gift, Gift Card, Reward Point, PDF Invoice and Order Manager.
- Researched and applied new technologies to improve UI/UX, increasing customer engagement; supported clients with setup, configuration and debugging.

STACK [Magento](#) [PHP](#) [MySQL](#)

PERSONAL PROJECTS

Haanlogistic

2019 - Present

- Order, shipping and customer-management system for US-Vietnam cross-border logistics, now used by hundreds of agencies with continuous revenue growth.
- Multi-layer order management with barcode scanning, email/SMS status notifications, bulk thermal printing and Google Drive media uploads.

STACK [Laravel 5.6](#) [Blade](#) [Vue.js](#) [Redis Queue](#)
[Google Script](#)

Menhphongthuy

2020 - Present

- Digital platform for lunar calendars, horoscopes, feng shui and fortune-telling — lunar tracking, horoscope generation, good-day selection, hexagram casting and tarot.

STACK [Laravel 7](#) [Blade](#) [Vue.js Mix](#)

EDUCATION

B.Sc. in Mathematics & Computer Science

Hanoi University of Science
Sep 2009 - Jun 2013

CERTIFICATIONS

- AWS Certified Developer — Associate (DVA)
- Professional Scrum Master I (PSM I)
- Spryker Certified Foundation Developer
- DevOps Professional Certificate — PagerDuty & LinkedIn
- ServiceNow IT Leadership Professional Certificate

COURSES & TRAINING

[NestJS Fundamentals \(Official\)](#)

[DevOps: Beginners to Advanced with Projects](#)

[Docker & Kubernetes: The Practical Guide](#)

[Helm Masterclass: 50 Practical Demos](#)

[PMP Certification Exam Prep \(35 PDU\)](#)

[Flutter & Dart: The Complete Guide](#)

[Complete AI & Machine Learning, Data Science Bootcamp](#)