

NGUYEN DUY HUNG

Backend Developer (Fresher) — PHP / Laravel

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PROFESSIONAL SUMMARY

Software Engineering graduate (ready for full-time employment) with hands-on experience in the PHP/Laravel ecosystem, gained from maintaining, debugging, and building features for systems in live production use. Strong background in database design, payment/AI API integration, and process automation. A collaborative team player with a strong sense of ownership, attention to detail, and systems thinking, always focused on solving real business problems. Seeking a Fresher PHP / Backend Developer position or an equivalent role with a long-term commitment.

TECHNICAL SKILLS

Backend	PHP — Laravel 12 (Eloquent ORM, Sanctum, Migrations/Seeders, Validation) and vanilla PHP; Java (Servlet, Spring Boot); C# (.NET WinForms).
Frontend	React.js, Progressive Web App (PWA), HTML5, CSS3, JavaScript (ES6+), Bootstrap 5.
AI & Automation	Google Gemini API (OCR, LLM-based scoring, prompt engineering), n8n (workflow automation, webhooks), payment webhooks (SePay), cron jobs.
Auth & Security	JWT , Laravel Sanctum, OAuth Code (Zalo login), bcrypt, Cloudflare (DDoS protection/SSL).
Database	MySQL, MongoDB (Mongoose ODM), Redis — session caching.
Testing	PHPUnit (Laravel), Postman — API integration testing.
DevOps & Tools	Docker, Git & GitHub, GitHub Actions CI/CD, Linux, Vercel, Render, Cloudflare, Figma, Jira, ClickUp.
CS Fundamentals	Data Structures & Algorithms, OOP, Operating Systems, Computer Networks, Information Security.

PROJECTS

Kieu Giang Boarding House Management System [↗ GitHub](#) August 2026 | Graduation Thesis
Tech stack: Laravel 12 (RESTful API, Eloquent, Sanctum) · OAuth Code Zalo · React (SPA) · PWA · MySQL · Google Gemini API (OCR) · SePay Webhook · Cloudflare · GitHub Actions CI/CD · Vercel

- Designed and built a full-stack platform that digitized the entire operation of a real boarding house — including room/tenant management, contracts, utility billing, payments, bookkeeping (per Form S1a-HKD), and maintenance requests — serving both Landlord and Tenant roles, streamlining operations and fully replacing manual paper records.
- Automated monthly bill calculation based on electricity/water meter readings, automatically deducting free usage allowances per occupant and prorating charges for tenants who move in mid-month, eliminating manual calculations and billing disputes.
- Integrated the Google Gemini API for OCR to automatically extract tenant information from ID card photos and read electricity/water meter readings from photos, with alerts for abnormal consumption spikes.
- Built an automated payment reconciliation system: created invoice QR codes, integrated bank webhook for auto-matching, and flagged unmatched transactions.
- Implemented the interface as a PWA, unifying the web and mobile experience so landlords could operate it from their phone in-room like a true native app, with data always synced and centralized.
- Delivered 42+ features meeting requirements for security, availability, performance, and responsiveness.

→ Live demo: kg.duyhung.io.vn

Doithe123.vn — Card Purchase & Top-up Platform 2024 – Present · In Production
Tech stack: Vanilla PHP · Bootstrap · MySQL · SePay Webhook · GitHub Actions CI/CD (multi-host)

- Took over and continuously upgraded a pre-existing card exchange/top-up system built in vanilla PHP, keeping it running 24/7 for a real business for over a year.

- Fixed a critical balance bug in the card purchase module (risked exploitation and financial loss), plus other logic errors and security vulnerabilities found in production, protecting customers' funds.
- Replaced a hardcoded product catalog with a mechanism that pulled products dynamically from the supplier, and redesigned the single-supplier architecture into a multi-supplier model with a cron job that automatically switched to the cheapest supplier over time.
- Integrated the SePay webhook into the top-up flow to detect payments and credit user wallets automatically in real time, eliminating manual reconciliation.
- Split a single system-wide cron job into independent, per-module cron jobs for better fault isolation and maintainability, and configured GitHub Actions CI/CD to automatically deploy to multiple hosting providers.

→ Live demo: doithe123.vn

AI-Powered Recruitment Automation [↗ GitHub](#)

May 2026 · Personal Project

Tech stack: Next.js · n8n (workflow automation) · MongoDB (Mongoose) · Google Gemini 2.5 Flash API · Docker

- Designed an event-driven Applicant Tracking System (ATS): a Next.js front end for posting jobs and submitting applications, an n8n orchestration hub handling the entire business workflow, and MongoDB for data storage.
- Built an automated screening pipeline: extracted text from PDF resumes and sent it with the job description to Gemini 2.5 Flash — pre-prompted for recruiting — to score candidates (0–100) and return feedback in JSON format.
- Improved fault tolerance for the AI node with automatic retry/backoff on failure and automatic fallback to a backup model when the primary model hit API rate limits, ensuring uninterrupted processing.
- Implemented phase 2 of the automation: ranked all pending applications by AI score, automatically labeled candidates Pass/Fail based on each position's criteria, and sent bulk result-notification emails.

Computer Equipment E-commerce Website [↗ GitHub](#)

Nov 2025 · Personal Project

Tech stack: PHP/Laravel · MySQL · Redis · JWT Auth · Docker · GitHub Actions · SePay Webhook · Cloudflare

- Built a complete e-commerce platform from business analysis and ERD design through implementation, including full product, cart, user, inventory, and order-processing management.
- Implemented an MVC architecture with JWT (access + rotating refresh tokens) and Redis session caching to reduce database load.
- Containerized the application with Docker and set up a GitHub Actions CI/CD pipeline for automatic deployment, significantly cutting deployment time.
- Integrated the SePay webhook for automatic bank top-ups, and Cloudflare for domain management and DDoS protection.

→ Live demo: ecom.duyhung.io.vn

Smart English Learning Platform (Team Lead) [↗ GitHub](#)

Mar 2025 · Team of 14

Tech stack: Node.js/Express · React · MySQL · JWT · Google Gemini API · TTS API · Vercel · Render

- Led and mentored a 14-person team from kickoff to delivery, managing progress with Jira/ClickUp, achieving 100% on-time completion of tasks assigned according to each member's ability, with no outstanding blockers.
- Designed the team's Git-flow branching strategy, personally reviewed all code, and built a RESTful API with Express.
- Integrated Google Gemini to auto-generate lessons with AI and a Text-to-Speech API for listening exercises; set up CI/CD via Vercel (React) and Render (Node.js).

EDUCATION

Saigon Technology University (STU)

Software Engineering

2022 – 2026 · Expected Graduation: Nov 2026

CERTIFICATES

- [Project Management — Coursera](#) [↗](#)
- [Cybersecurity Fundamentals — Coursera](#) [↗](#)