NGUYEN TRAN PHUONG DUY
Software Engineer

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💼 EXPERIENCE

🗓 **[08/2024 - Present] Midwave, Inc.** - Backend Developer

Lead Japan Calling - Booking System covering event/match operations, Stripe payments, and QR-based check-in.

Designed DDD 3-layer architecture (Domain, Application, Infrastructure) with Prisma, Stripe, AWS S3, and BullMQ/Redis.

Built scalable Node.js/NestJS APIs and workers to power payments and ticket fulfillment.

Built real-time ticket inventory tracking plus order workflows with expiration handling.

Designed and implemented the backend architecture for Suisei.ai's LLM-based product.

Integrated LLM capabilities with PostgreSQL and optimized data flow using Terraflow.

🗓 **[07/2024 - 04/2025] FECredit** - Risk Management System Developer

Developed and maintained risk management systems for the financial company.

Used Pega System, JAVA, and JavaScript to develop and enhance system functionality.

🗓 **[12/2021 - Present] Freelancer** - Developer

Using PHP, Laravel, Python, ExpressJS, VueJS, MySQL, PostgreSQL to develop and maintain system.

Know the basic features in AWS (EC2, S3, RDS, Lambda, API Gateway).

Implemented an LLM product using Python, PostgreSQL, Terraflow, and Large Language Models.

🗓 **[04/2020 - 06/2024] MindX Technology School** - Programming Lecturer

Assisted in the instruction of lecture for web and game development.

Instruct and guide students in using Scratch, GameMaker, HTML, CSS, JS, Firebase, Python.

🗓 **[07/2021 - 03/2024] Cube System Vietnam Co., Ltd** - Software Engineer

Develop and maintain company projects.
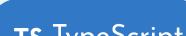
Using PHP, Laravel, CodeIgniter, Node.js/ExpressJS, MySQL, PostgreSQL, HTML, CSS, JS, Bootstrap to develop system.

</> SKILLS
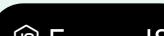
Layout & Design

🔶 HTML   🔷 CSS

🌊 Tailwind CSS   Ⓑ Bootstrap

Programming Languages

🟨 JavaScript   TS TypeScript

php PHP   🐍 Python

Framework

🔺 Laravel   🔥 CodeIgniter

Ⓔ ExpressJS   🐱 NestJS

⚛ ReactJS   ▽ VueJS

⚛ NextJS   ⚡ FastAPI

AI/ML

🧠 LLM   🗄 RAG

🔀 Vector DB

Infrastructure

☁ Terraform   aws AWS

Database

🐬 MySQL   🗄 PostgreSQL

🔥 Firebase

📁 PROJECTS

⟨⟩ Japan Calling - Booking System - Midwave, Inc. [07/2025 - Present]
Description: Sports event ticketing platform with event/match management, Stripe-integrated payments, real-time ticket inventory, and QR code check-in.
Technologies: NestJS 11, TypeScript, PostgreSQL, Prisma ORM, Stripe, AWS S3, BullMQ/Redis, JWT Auth
Role: Backend Developer
Architecture: Domain-Driven Design with Domain (entities, business logic), Application (use cases), and Infrastructure (Prisma, Stripe, S3 integrations) layers.
Responsibilities: Built ticket inventory tracking, order processing with expiration handling, QR-based booking check-in, and payment workflows over Stripe.

⟨⟩ Suisei.ai - Midwave, Inc. [08/2024 - 07/2025]
Description: Developed and deployed an AI-powered language model application
Technologies: Python, PostgreSQL, Terraflow, Large Language Models
Role: Freelance ML Engineer / Backend Developer
Responsibilities: Designed and implemented the backend architecture for an LLM-based product. Integrated LLM capabilities with database systems using Python and PostgreSQL. Optimized data flow using Terraflow for efficient processing.

⟨⟩ Pega CSM and Pega Antifraud [07/2024 - 04/2025]
Description: Risk management systems for financial services
Technologies: Pega System, JAVA, JavaScript
Role: Risk Management System Developer
Responsibilities: Developed automated functions, fixed bugs and implemented patches. Integrated external systems with Pega CSM and handled cross-system logic processing. Maintained and enhanced risk management systems for financial operations.

⟨⟩ Kinsure - Freelance [08/2023 - 11/2024]
Description: Develop and maintain Backend systems related to personal information management
Technologies: Laravel, MySQL, AWS (S3, EC2, RDS)
Role: Backend Developer (Laravel)

⟨⟩ CUBECOIN [04/2023 - 03/2024]
Description: Maintain and develop the company's Blockchain virtual currency system.
Technologies: Python, VueJS, Flutter, PostgreSQL, Go-Ethereum, AWS (Lambda, S3, RDS, EC2, API Gateway)
Role: Backend Developer (Python), Frontend Developer (VueJS)

⟨⟩ howz.dev - Open Source [01/2023 - Present]
Description: Personal website and blog made using Next.js, TypeScript, Tailwind CSS and Notion
Technologies: Next.js, TypeScript, Tailwind CSS, Notion API
Role: Fullstack Developer (Next.js, TypeScript, Tailwind CSS)

⟨⟩ ICONIC Survey [11/2022 - 01/2023]

Description: Develop a website for suvery, users, managers, and administrators to manage the survey.
Technologies: PHP, Laravel, MySQL, Docker, AWS
Role: Backend Developer, Frontend Developer, Database Designer, DevOps, Pull Request Reviewer

⟨⟩ SHIMADA Shoji Warehouse Management System [05/2022 - 10/2022]

Description: Develop a website for users, managers, and administrators to manage the warehouse.
Technologies: PHP, CodeIgniter, PostgreSQL, NodeJS (Socket.io)
Role: Web Developer, Database Designer, Test Automation