

NGUYEN VAN DUY KHIEM

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LinkedIn ◊ Portfolio ◊ GitHub

EDUCATION

FPT University - Ho Chi Minh City

Bachelor of Software Engineering

Expected Graduation: June 2026

09/2022 - 06/2026

PROFESSIONAL EXPERIENCE

Amazon Web Services Vietnam (FCAJ Program)

Bitexco Financial Tower, HCMC

09/2025 - 04/2026

◊ Cloud Engineer

Project: Manhattan DataWays

- Built an event-driven AWS ETL pipeline with S3, EventBridge, Step Functions, Lambda, and Glue DataBrew to turn raw taxi files into analytics-ready data.
- Cleaned noisy TLC trip records by removing null passengers, zero-distance trips, and negative fares, then storing curated Parquet partitions.
- Enabled BI on demand, revenue, and spatial trends by warehousing curated datasets in **Amazon Redshift data warehouse** and powering **Athena SQL** and **QuickSight** dashboards.

01/2026 - 04/2026

◊ Cloud Engineer Trainee

Project: Clickstream Analytics Platform

- Processed **1,000+ clickstream records** per **2-minute** ETL batch by building a serverless AWS pipeline Lambda, S3, EventBridge, and PostgreSQL.
- Raised job reliability to **99.9% JSR** by implementing idempotent updates, automated retries, and exception handling for recoverable ETL failures.
- Reduced data exposure risk by isolating the analytics database in **private subnets** and enforcing least-privilege access with **IAM** and **Security Groups**.

09/2025 - 12/2025

EzyFix

Freelance Project, Remote

08/2025 - 11/2025

◊ Backend Engineer

- Automated repair-request triage by integrating **Gemini multimodal AI** to classify user-submitted photos and route issues through the service workflow.
- Protected payment consistency by building PayOS escrow, webhook handling, wallet settlement, and resilient appointment-state transitions in ASP.NET Core.

FPT Software

Saigon Hi-Tech Park, HCMC

12/2024 - 06/2025

◊ Software Engineering Intern (.NET)

Project: Claim Request System

- Digitized claim approval workflows for **5+ departments** by leading a **10-member** team building an ASP.NET Core claim management system.
- Standardized request lifecycle control across **5 roles** by engineering a state-machine approval engine with role-based access control and audit trails.
- Reduced manual release effort by implementing a **GitHub Actions CI/CD pipeline** for automated build, test, and Azure App Service deployment steps.

PROJECTS

SnakeAid

ASP.NET, Redis, PostgreSQL, LiveKit, PayOS, Jenkins, CodeMagic, Docker, NGINX, Linux, Cloudflare, Google Colab, YOLOv12, FastAPI, Hugging Face

Team Size: 5

12/2025 - 04/2026

- Enabled **2 expert-consultation modes**, instant and scheduled, by building ASP.NET Core workflows for expert discovery, availability and time-slot management, booking state transitions, messaging, video-call lifecycle, and post-consultation reviews.
- Unified **3 paid service flows**, consultation, emergency, and snake-catching, by implementing payment, transaction, and wallet modules with top-up support, ledger-driven escrow, refund, and settlement handling.
- Enabled **4-level severity classification**, sub-**5-second** snake identification, and sub-**3-second** severity assessment by fine-tuning a YOLO12 Computer Vision model on Google Colab, managing datasets and trained artifacts through Hugging Face, and serving model inference via FastAPI.
- Designed and operated self-hosted containerized Linux infrastructure using NGINX reverse proxy for multi-service subdomain routing, Cloudflare Tunnel security, Doppler secrets management, and Jenkins backend and CodeMagic mobile CI/CD pipelines.

Aloha Market

ASP.NET, Kafka, PostgreSQL, MongoDB, Keycloak, SignalR, YARP, OpenTelemetry

Team Size: 5

05/2025 - 08/2025

- Enabled independent marketplace domains by designing **8 microservices** coordinated through **Kafka** events and a **YARP** API gateway.
- Improved service scalability and data isolation by implementing database-per-service persistence with **PostgreSQL**, **MongoDB**, and EF Core.

TECHNICAL SKILLS

Backend & Database: C#, .NET Core, Microservices, Kafka, SignalR, YARP, PostgreSQL, MongoDB, SQL Server, DynamoDB

Cloud: AWS (Lambda, EC2, S3, API Gateway, EventBridge, SSM), LocalStack, Azure

DevOps: Linux, Docker, CI/CD (Github Actions, Jenkins), Networking (Basic), Self-hosted Proxmox Home Lab, Ansible, Terraform

Security & Observability: OAuth 2.0, JWT, Keycloak, AWS Cognito, OpenTelemetry, Prometheus, Grafana

LICENSES & CERTIFICATIONS

◊ **AWS:** Well-Architected Proficient | Generative AI ◊ **PMI:** Fundamentals of Agile Project Management ◊ **UMN:** Software Development Lifecycle

◊ **Linux Foundation:** LFS167 Jenkins | LFS148 OpenTelemetry | LFS162 DevOps & SRE