

Vu Thanh Dong

Full-Stack Developer

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OBJECTIVE

Full-stack engineer specializing in Next.js and NestJS, with strong AWS/DevOps fundamentals and system design thinking. Seeking a role to build scalable, reliable web products end-to-end.

EDUCATION

Hanoi University of Science and Technology

2021 — 2025

B.Sc. Computer Science (IT1)

- Academic focus areas: Data Structures & Algorithms, Web Application Engineering, Database Systems, Operating Systems, Computer Networking, and Software Engineering.
- Final Year Project: Built and deployed a web-based pharmacy sales application using Next.js and NestJS, featuring secure payments, real-time updates via WebSocket, and a complete sales workflow. Deployed on AWS with the frontend on AWS Amplify and the backend on EC2 behind an Application Load Balancer (ALB).

WORK EXPERIENCE

VGT Global JSC

May 2026 — Present

Technical Lead

Technical lead on a multi-tenant hotel concierge platform running in production for hotels in Japan. Own the architecture — the tenant data model, the realtime call flow, and the on-premises voice AI in the guest tablet — along with the delivery path from CI through to the servers.

- **Project: Hotel Concierge Platform**
- Multi-tenant platform for hotels in Japan: one shared PostgreSQL database with row-level isolation per hotel, kept deliberately over a database-per-tenant split and sized for hundreds of properties at 150-500 rooms each.
- Guest-to-staff calls are peer-to-peer WebRTC audio with TURN fallback on a self-hosted coturn, so media never reaches the app server and the API carries signalling only; on the staff phone, CallKeep and Firebase messaging put the call on the native incoming-call screen.
- On-premises voice AI per hotel — the backend routes AI chat and voice to that site's local GPU endpoint instead of a cloud provider, speech to speech through a lip-synced 3D avatar.
- Built the guest-tablet Android system in Kotlin: a Device Owner agent that holds the device binding, restarts the kiosk when it dies and applies commands from the backend, wrapped around a hardened WebView shell.

Pionero JSC

Sep 2024 — May 2026

Full-Stack Developer

Joined as an intern and stayed on as a Full-Stack Developer, building and deploying production web systems using Next.js, NestJS, and AWS. Strong in system design fundamentals, API design, and building scalable cloud architectures (EC2/ALB, ECS/ECR, RDS, S3/CloudFront, SQS, API Gateway), with CI/CD-driven delivery. Comfortable owning features end-to-end — from implementation and debugging to deployment and monitoring.

- **Project: Stock/Investment Blogging Platform**
- Built a responsive, pixel-perfect stock/investment blogging platform using Next.js (frontend) and NestJS (backend), delivering core features such as content management, SEO-friendly pages, and user-facing interactions.
- Deployed and operated the system on AWS: RDS for data storage, ECS/ECR for containerized services, API Gateway for API routing, S3 and CloudFront for static assets and CDN, SQS for async jobs, and email notifications via SNS/SendGrid; used EC2 for debugging and operational support.
- **Project: Scratch-like Learning Platform (Internal)**
- Developed the School Admin web to manage teachers and student projects/artifacts, using Refine (React) for rapid CRUD workflows, RBAC-style screens, and data management.
- Customized Strapi as the backend (custom content types, permissions, and APIs) and deployed the system on AWS with EC2 + Application Load Balancer (ALB), S3 + CloudFront for assets/CDN, and CI/CD pipelines for automated build & release.

- **Project: Japanese Learning Platform**
- Built a web-based Japanese learning system using Next.js and NestJS, integrating the Web Speech API for speaking practice.
- Implemented and optimized i-mobile (Japan) ad integration across the platform, including advanced event tracking, conversion measurement, and custom JavaScript-based parameters to accurately capture pageview metrics.
- **Project: Internal Accounting Platform**
- Worked on an internal accounting web system, building advanced form-heavy workflows in Next.js with complex business rules, including dynamic validations, conditional fields, and cascading state updates across multiple sections.
- **Project: Pre-RAG**
- Developed a real-time Next.js UI using shadcn/ui, integrating WebSocket streaming to display live speech-to-text output from a backend running on Azure.

Freelance
Full-Stack Developer

Jun 2026 — Sep 2026

Sole developer on a loyalty and ordering product for a coffee chain, delivered inside Zalo and integrated with the brand's iPOS point-of-sale. Scoped, built and shipped end to end across the Mini App, the API and the admin console.

- **Project: ReCoffee — Zalo Mini App**
- Built a loyalty and ordering product for a coffee chain as a Zalo Mini App in React, on a NestJS API with TypeORM and PostgreSQL, plus an admin console for the brand.
- Integrated the chain's iPOS point-of-sale using Redis and Bull background jobs: member sync, voucher listing, and redeeming loyalty points for vouchers.

SKILLS

Communication skill	Clear written communication, Stakeholder updates
Teamwork skill	Cross-functional collaboration, Code reviews
Problem-Solving Skill	Debugging, Root-cause analysis
Time Management Skill	Prioritization, Agile delivery
IT Proficiency	Next.js, React, React Native, TypeScript, Tailwind CSS, NestJS, Socket.IO, WebRTC, Prisma, AWS, Docker, GitHub Actions, PostgreSQL, MySQL
Language Skills	Vietnamese (Native), English (Professional working)

CERTIFICATIONS

TOEIC 780	2025
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INTERESTS

System Design, Cloud Computing (AWS), DevOps & CI/CD, Web Performance, Open-source

ADDITIONAL INFORMATION

Comfortable owning features end-to-end (dev → deploy → monitor); familiar with OWASP basics and IAM least-privilege.