

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 in production, and on an office reception MVP built on the same calling core. Own the architecture — data model, 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**
- Built a multi-tenant concierge platform for hotels with NestJS and React: a guest tablet app, a staff dashboard and a lobby tablet on one API, with Socket.IO and WebRTC carrying live audio calls between guests and staff, and PostgreSQL row-level security separating each hotel's data.
- Added an on-premises Japanese voice AI to the guest tablet — speech to speech through a lip-synced 3D avatar served from a local GPU — and ran the system on Docker, PM2 and GitHub Actions.
- **Project: Office Reception & Call System (MVP)**
- Built an office reception system where a visitor taps a department on the lobby tablet and the assigned staff member's own phone rings, using NestJS, Socket.IO and WebRTC for the call.
- Delivered the mobile side in React Native with Firebase Cloud Messaging, so an incoming call reaches the phone and rings even when the app is closed and the screen is locked.

Freelance

Oct 2025 — Jul 2026

Full-Stack Developer

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.

Pionero JSC

Aug 2025 — May 2026

Full-Stack Developer

Full-Stack Developer with hands-on experience 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**
- 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.

Pionero JSC

Sep 2024 — Jul 2025

Intern

Contributed to multiple web projects during my internship, building responsive, user-focused features with Next.js and strengthening backend understanding, while also studying AWS fundamentals and common deployment patterns.

- **Project: Japanese Learning Platform**
- Built a web-based Japanese learning system using Next.js and NestJS, integrated Web Speech API for speaking practice.
- **Project: Internal Accounting System**
- Built responsive Next.js UIs with complex, state-driven forms and rule-based field dependencies (dynamic validations, conditional logic, and cascading updates triggered by user input). Strengthened frontend expertise through reusable component patterns and exposure to multiple UI frameworks.

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

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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.