



NGUYEN QUOC DOAN

Technical Architect

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About me

A Senior Fullstack Developer with over 8 years of experience in architecting scalable microservices, real-time data pipelines, and cloud-native applications using Node.js, Java, Angular, Vue.js, and AWS. Seeking to leverage expertise in system design, full stack development, and DevOps to deliver innovative solutions for distributed systems.

CORE TECHNICAL EXPERTISE

Backend & Architecture (8+ years)

Node.js • TypeScript • Express • NestJS • Moleculerjs • GraphQL • Microservices • API Design

Cloud & DevOps (3+ years)

AWS (EKS, S3, MSK, CloudWatch) • Kubernetes (K3s, K0s, Helm, Kustomize) • Docker • CI/CD (GitHub Actions, GitLab CI) • ArgoCD • GitOps

Data & Infrastructure (3+ years)

PostgreSQL • Redis • Apache Kafka • Apache NiFi • Debezium • Kafka Connect • Infrastructure as Code

Frontend & Integration (5+ years)

Vue.js • React.js • Next.js • Angular • Web3/Blockchain • Solidity

Education

FPT University	Advanced diploma in software engineering	2012 – 2015
<ul style="list-style-type: none">Learning more about Software Engineering Technology (Fast-Track) program emphasizes object-oriented software design methodologies, user-oriented interface design.		

Work Experiences

LTV	Technical architect	Jun 2018 – Oct 2020 – Mar 2023 – Present
<ul style="list-style-type: none">Architected microservices and IoT systems with Node.js, NestJS, and GraphQL, achieving 99.9% uptime.Led Hinavi project, building data pipelines with Kafka and AWS EKS, supporting 120+ IoT devices.Deployed zero-downtime systems using K3s, Helm, and ArgoCD; optimized CI/CD with GitHub Actions.Received 'Top Individual Excellence of the Year 2024' award for exceptional leadership and performance.		

I served as a senior software engineer. Using Solidity, NodeJS, NextJS, microservices, and Azure to develop blockchain and metaverse products, as well as decentralized identity solutions

DOU Holdings Networks Co.,Ltd**Software Engineer**

Jan 2015 – Jun 2018

Development web application with Java Spring, Nodejs, PostgreSQL, Mysql, MongoDB, AngularJs, Angular 2.x, VueJs

Certificates

Course on udemy

- Node.js: Microservices Node.js: Microservices–
- React: Design Patterns React: Design Patterns
- Ethereum Blockchain Development Bootcamp With Solidity
- SQL, NoSQL, Big Data, and Hadoop
- Spring Framework 5: Beginner to Guru
- DevOps CI/CD pipelines

Languages

English

Intermediate

vietnamese

NATIVE

Projects

Connect Plus

Fullstack Developer

- Project Description: Chatbot system for automated consumer conversations.
- Role: Fullstack Developer.
- Tech Skills: Node.js, Vue.js, React.js, AWS, DynamoDB.
- Achievements: Integrated with Zalo and Facebook, served 5,000+ users.
- Team Size & Duration: 22 members.

Ltv Coffee

Fullstack Developer & Architect

- Project Description: Freelance job platform for 1,000+ users.
- Role: Fullstack Developer & Architect.
- Tech Skills: Node.js, MoleculerJS, Vue.js, PostgreSQL.
- Achievements: 40% faster API response, 99.9% uptime.
- Team Size: 14 members
- Award: Top 15 Outstanding Startups in Vietnam, 2019

Oasis

DevOps Engineer & Technical Architect

- **Project Description:** Vessel management system with shore (AWS EKS) and vessel (Docker Swarm) deployment.
- **Role:** DevOps Engineer & Technical Architect.
- **My Responsibilities:**
 - **Cloud Migration:** Led AWS account migration and infrastructure redesign
 - **Shore Infrastructure:** Deployed shore systems using K3s for development and EKS for production environments
 - **CI/CD Implementation:** Built automated pipelines using Bitbucket Pipelines and GitHub Actions with GitOps workflow
 - **Edge Device Management:** Created Docker Swarm installer for vessel deployment on edge devices
 - **Data Synchronization:** Implemented Apache NiFi for real-time data sync between edge PostgreSQL and shore databases
 - **Full-Stack Development:** Built microservices using MolecularJS and frontend with Vue.js
 - **Operations:** Set up comprehensive monitoring, logging, and alerting systems

Hinavi

Onsite: Korea

Role: DevOps Team Leader & Solutions Architect

Project Overview: Large-scale maritime IoT infrastructure serving global vessel fleet. Designed and managed hybrid cloud-edge architecture connecting 120+ edge devices across international waters with AWS shore infrastructure.

Architecture Responsibilities:

- **DevOps Team Leadership:** Led DevOps team responsible for entire infrastructure lifecycle
- **Solutions Architecture:** Designed hybrid shore-edge architecture for maritime operations
- **AWS Shore Infrastructure:** Architected and deployed cloud infrastructure using EKS with auto-scaling capabilities
- **Edge Infrastructure:** Designed and deployed K3s clusters to 120+ edge devices across vessel fleet
- **Zero-Downtime Strategy:** Implemented canary rollout deployments using EKS, Kustomize, and advanced deployment patterns

CI/CD & Code Management:

- **Multi-Platform Integration:** Set up GitHub to GitLab synchronization for seamless code flow
- **Environment Management:** Deployed dev/staging environments from GitHub, production from GitLab
- **GitOps Implementation:** Automated deployments across dev-staging-production pipeline with full traceability

Data Synchronization:

- **Microservices Data Sync:** Architected data synchronization between microservices databases
- **Shore-Edge Data Pipeline:** Designed and managed real-time data sync between shore and 120+ edge devices using Apache Kafka ecosystem
- **Kafka Architecture:** Implemented Kafka, Kafka-Connect, Debezium, and Kafka REST Proxy for reliable data streaming
- **ETL Development:** Coded batch services for data transformation and processing

Operations & Site Reliability Engineering:

- **Monitoring & Alerting:** Implemented comprehensive monitoring stack for shore and edge infrastructure
- **Auto-scaling:** Configured dynamic scaling based on workload and maritime operational patterns
- **SRE Practices:** Maintained 99.9% uptime across distributed maritime infrastructure
- **Edge Device Management:** Used Ansible for rapid issue resolution and automated edge device configuration
- **Network Security:** Set up VPN infrastructure allowing secure access to edge device networks