



TRAN QUANG DUONG

DevOps Engineer

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Summary

Full-Stack Software Engineer specializing in production-grade internal platforms, data-driven systems, and enterprise system integration. Experienced in owning end-to-end architectures including frontend, backend, database, data pipelines, and cloud infrastructure on AWS. Built and operated large-scale internal systems (~500,000+ requests) with strong focus on reliability, observability, and performance. Hands-on experience designing ETL pipelines, relational data models, and API-driven platforms. Comfortable working directly with operational and engineering users, translating real-world workflows into scalable systems and iteratively improving them based on production behavior, edge cases, and live feedback.

Experience

WohHup Pte Ltd

Ha Noi, VN

BIM & Full-Stack Software Engineer

Dec 2023 – Present

- Owned end-to-end architecture and operation of a production-grade Document Management System (DMS) serving 500,000+ requests.
- Designed full-stack system architecture using React, Node.js (NestJS), and relational databases.
- Built AI-powered ETL pipelines for construction drawing data extraction and transformation.
- Designed optimized SQL data models for high-volume internal workloads.
- Implemented production reliability systems including retry, recovery, logging, and monitoring using AWS ECS and CloudWatch.
- Built CI/CD pipelines using GitHub Actions and AWS S3 deployment workflows.
- Led scaling and refactoring of Revit API tool ecosystem (150+ tools, 30,000+ usages).
- Owned production troubleshooting using logs, metrics, and real user behavior analysis.

<https://wohhup.com>

Freelance

Remote

Lead Software Engineer (BIM & Integration Systems)

Aug 2024 – Aug 2025

- Designed BIM automation systems for engineering workflows.
- Built integration systems between Revit, Etabs, and Tekla APIs.
- Led architecture design and delivery planning for engineering teams.
- Implemented cloud infrastructure and CI/CD pipelines.
- Built data ingestion and automation systems.
- Worked directly with field engineers for iterative system improvement.

Independent Developer / HUCE Researcher

Remote

BIM Software Developer

Jan 2023 – Nov 2023

- Developed BIM automation tools using C# and .NET.
- Built API integration systems for engineering workflows.
- Awarded 3rd Prize in Scientific Research for an AR/VR-integrated BIM solution.

Skills

Core

Full-Stack Development, Data Platform Engineering, System Integration, Production Systems Ownership



Data

SQL, Relational Database Design, ETL Pipelines, Data Modeling



Architecture

Microservices, Clean Architecture, Distributed Systems, Real-time Systems



Projects

AI-powered Construction Data Platform

- End-to-end ETL platform converting unstructured construction drawings into structured datasets for analytics.
- Full data pipeline ownership from ingestion to analytics layer

Enterprise Document Management System (DMS)

- Large-scale internal system handling 500,000+ requests with document workflows and cloud deployment.
- Full-stack ownership including backend, frontend, database, and DevOps.

Languages

Vietnamese

Native



English

Full Professional Proficiency



Certifications

AWS Solutions Architect Associate Course

Code Star Academy Completed comprehensive training on AWS Cloud Architecture.

Awards

Scientific Research Award

3rd Prize

Application of BIM and AR-VR in Construction Digital Transformation (2024)

Education

Posts and Telecommunications Institute of Technology

Remote • Dec 2025 – 2027 (Expected)

B.S. in Information Technology

Hanoi University of Civil Engineering

2020 – 2024

Engineer's Degree in Construction Informatics

Honors: Excellence & Good Scholarships; Recognized as "Elite Student".