



TRAN DINH THANG

SOFTWARE ENGINEER

🎂 08/02/1999 📞 +84337724134 ✉ trandinhthangdev@gmail.com

🌐 trandinhthangdev.com 🐙 github.com/trandinhthangdev 🔗 linkedin.com/in/trandinhthangdev

📘 facebook.com/trandinhthangdev 📺 youtube.com/@trandinhthangdev 📍 Hung Yen, Vietnam

ABOUT ME

I am Tran Dinh Thang, a Software Engineer passionate about innovation and product development. With a strong technical background, I have extensive experience in building scalable Full-stack applications using Node.js, PHP (Symfony), ReactJS, VueJS, and Mobile frameworks like Flutter and React Native. Beyond my professional career, I am a dedicated Indie Developer with several self-published mobile apps reaching tens of thousands of downloads. I also enjoy blogging to share my technical knowledge and coding experiences. In my free time, listening to music, hitting the gym, and watching football help me maintain a healthy work-life balance.

EDUCATION

COMPUTER SCIENCE (ENGINEER)

Hanoi University of Science and Technology

09/2017 - 09/2022

"Graduated with Good degree, GPA: 2.89/4 (255 credits)"

WORK EXPERIENCE

SILICO VIETNAM

11/2019 - now

Software Engineer

Participated in developing comprehensive software solutions for Healthcare (MedTech), Transportation, Manufacturing, and Education. Built secure, scalable Backend APIs using Symfony (PHP) and

PostgreSQL. Designed and developed highly interactive Web interfaces (ReactJS, VueJS) and Mobile applications (Flutter) for field staff. Optimized search with Elasticsearch and implemented Real-time features.

OPEN TECHIZ

11/2022 - now

Software Engineer

Developed Digital Governance (GovTech), AI-integrated EdTech platforms, and DevOps tools. Built Microservices Backend systems using Node.js (NestJS, Express). Developed modern Mobile Clients (React Native) and Web Apps (ReactJS). Managed CI/CD pipelines and deployed systems on Docker, Kubernetes, and Google Cloud Platform infrastructure.

SKILLS

PROGRAMMING LANGUAGES

JavaScript

TypeScript

PHP

HTML5

CSS3

Dart

LIBRARIES & FRAMEWORKS

ReactJS

NextJs

React Native

VueJS

NodeJs

NestJs

ExpressJs

Symfony

Laravel

Material UI

Ant Design

DevExtreme

Tailwind CSS

Bootstrap

Jquery

Flutter

DATABASES & INFRASTRUCTURE

PostgresQL

MySQL

MongoDB

Redis

Firebase

Elasticsearch

RabbitMQ

DEVOPS & TOOLS

Docker

Docker Compose

GitHub Actions

GitLab CI

Jenkins

Nginx

Linux Server

PM2

GCP

K8s

Git

VS Code

PHP Storm

TESTING

Jest

PHPUnit

Cypress

Playwright

PROJECT MANAGEMENT

Jira

Trello

Agile

LANGUAGES

- Basic English

SOFT SKILLS

- Problem-solving
- Teamwork & Communication

PROJECTS

ILICO

Full Stack Developer (Mobile & Web)

A comprehensive Enterprise Resource Planning (ERP) solution designed to digitize and optimize core business processes. The system unifies checking, workforce management, and resource scheduling into a centralized platform, accessible via a high-performance mobile app and a feature-rich web portal.

- *Architected the core ERP modules using Symfony and PostgreSQL, ensuring data integrity and scalable performance for handling complex business transactions and resource planning.*
- *Developed a cross-platform mobile application with Flutter to extend ERP capabilities to field employees, enabling remote attendance tracking, task management, and real-time reporting.*
- *Built a dynamic web dashboard using React JS and DevExpress, providing management with deep insights through interactive Gantt charts, pivot grids, and advanced reporting tools.*
- *Engineered the resource scheduling system, allowing disparate departments to coordinate shifts, equipment, and tasks seamlessly within a unified interface.*

Flutter

React JS

Symfony

Material UI

PostgreSQL

DevExpress

GOVSQUARE

Fullstack Developer

Digital Governance and collaboration platform. The system includes a cross-platform mobile application and a web interface (Web App) supporting real-time communication, online document collaboration, and process management. Microservices-oriented system architecture, integrating Real-time features and complex data processing.

- *Developed Cross-platform Mobile application with React Native, integrating Native Modules for Camera, File handling, and Push Notification (Firebase).*
- *Built Web Frontend with ReactJS, managing state with Redux and integrating real-time document collaboration features.*
- *Designed and deployed Backend Services using Node.js & ExpressJS, handling business logic and API integration.*
- *Managed and optimized PostgreSQL database, performed Migrations and Schema management.*
- *Implemented Message Queues and Caching (Redis) to ensure performance.*
- *Containerized applications with Docker and operated Deployment processes on Kubernetes (K8s) / Google Cloud Platform environments.*

React Native

ReactJS

ExpressJS

PostgreSQL

Redis

Docker

K8s

Firebase

VBEAUTY ECOSYSTEM

Full-stack Developer | DevOps Support

A comprehensive beauty ecosystem integrating booking, loyalty, and content via a microservices architecture. The platform unifies a centralized CMS and customer web app to streamline appointments, tiered loyalty programs, and interactive marketing campaigns.

- *Architected and developed the full-stack ecosystem, utilizing NestJS for scalable microservices and React/Next.js for responsive administrative and customer-facing interfaces.*
- *Implemented complex business modules including a dynamic appointment scheduling engine, tiered loyalty point system, and gamified marketing campaigns.*
- *Designed and optimized PostgreSQL databases to ensure fast performance and data consistency across staging and production environments.*
- *Established the DevOps infrastructure by deploying applications on VPS servers using Docker for containerization, and creating automated scripts for seamless release management.*
- *Integrated secure authentication protocols and exposed comprehensive RESTful APIs to support mobile apps and third-party integrations.*

NestJS

Node.js

TypeScript

PostgreSQL

React.js

Next.js

Vite

Material UI (MUI)

Ant Design

Tailwind CSS

Docker

VPS

BLICKO

Full Stack Developer

A comprehensive web application for managing maintenance and repair services. The platform connects clients with repair professionals, facilitating the entire service lifecycle including request creation, scheduling, diagnostics, reporting, and invoicing. It features a client portal for tracking requests and quotations, and a robust administrative back-office for managing staff, calendars, and service categories.

- *Developed a responsive frontend using React and Material UI, featuring distinct portals for clients, repairers, and administrators.*
- *Built a scalable backend API using Symfony and API Platform to manage complex entities like users, requests, interventions, and payments.*
- *Implemented real-time scheduling features with a calendar system for managing repairer availability and rest days.*
- *Managed secure file uploads (photos, videos, documents) using AWS S3 and VichUploader.*
- *Integrated social login (Google, Facebook) and role-based access control (RBAC) specifically for Super Admins, Admins, Repairers, and Clients.*
- *Utilized Mercure for real-time server-sent events to update request statuses instantly.*

Symfony

API Platform

PostgreSQL

Redis

AWS S3

React JS

Material UI

React Admin

ADAPSIA

Fullstack Developer

Comprehensive clinic and schedule management system for medical professionals, supporting patient management, treatment plans (Treatments), and appointments. The system provides advanced features such as work schedulers, Kanban boards, secure medical record sharing, and online discussion tools.

- *Developed and maintained RESTful APIs using Symfony and API Platform to handle complex business logic regarding treatments and appointments.*
- *Built highly interactive Frontend interfaces using ReactJS, Redux Saga, and Material-UI, integrating complex components like Schedulers and Data Grids.*
- *Implemented background jobs and cron jobs to handle treatment statuses and send notifications.*
- *Integrated AWS services (S3, CloudFront) for secure storage and distribution of medical documents.*
- *Optimized large data search performance using Elasticsearch.*

React JS

Symfony

Material UI

PostgreSQL

DevExpress

Elasticsearch

Redis

MADEIN

Full Stack Developer

A comprehensive enrollment and admission management system tailored for educational institutions. The platform streamlines the entire admission lifecycle, from application submission and session management to final enrollment, enabling schools to optimize processes and manage applicant data effectively.

- *Designed and developed robust RESTful APIs using Symfony to handle complex admission logic and session management.*
- *Built highly interactive user interfaces with ReactJS, optimizing the experience for both applicants and administrators.*
- *Implemented advanced search and filtering capabilities using Elastica (Elasticsearch) to handle large volumes of applications.*
- *Integrated Mercure to provide real-time updates on application statuses and system notifications.*
- *Designed and optimized PostgreSQL database to ensure performance and data integrity for admission processes.*

ReactJs

Symfony

PostgreSQL

Elastica

Mercure

RATP

Full Stack Developer

Web application for managing operational documents, safety inspection processes (IPC), and work coordination for RATP. The system provides reporting tools, stakeholder management, construction site management, and automated PDF document generation.

- *Developed and maintained the Full-stack system using Symfony and ReactJS.*
- *Built RESTful APIs and integrated with the user interface using Material UI and DevExtreme.*
- *Implemented Real-time features using WebSocket.*
- *Configured and processed Background jobs such as PDF generation and email sending via Message Queue.*
- *Optimized data search with Elasticsearch.*

PHP

Symfony

ReactJS

Redux

PostgreSQL

Elasticsearch

WebSocket

Docker

IPN

Full-stack Developer | DevOps Support

This project builds a comprehensive digital ecosystem on Web and App platforms to support women startups and trade connections. The system integrates core modules such as an e-commerce platform, a job portal, and online training courses. Additionally, the platform provides news channels, policies, and interaction spaces for members. Thereby, the project creates an effective bridge connecting businesses, workers, and the women's community.

- *Backend & API Development: Built the system core and provided high-performance RESTful APIs for the Mobile App on the Laravel platform.*
- *Frontend Development: Developed the website user interface (Blade Template, Tailwind CSS) and a comprehensive administration system (AdminLTE).*
- *Database Design: Analyzed business requirements, designed, and optimized the MySQL database.*
- *Deployment: Configured the environment, set up the server, and deployed the system to VPS.*

Laravel

MySQL

Blade Template

Tailwind CSS

AdminLTE

VPS

Docker

OPTIMUT

Fullstack Developer

A healthcare management platform facilitating the collection and processing of patient medical requests and insurance information. The system allows administrators to initiate requests and generates secure, unique access tokens sent via email. Patients use these tokens to access a dedicated portal where they can securely upload required documents and update their personal details without needing a permanent account, streamlining the administrative workflow for medical examinations.

- *Developed the complete fullstack architecture using NestJS for the backend and Vue.js for the frontend.*
- *Designed and implemented specific workflows for patient request management, including token-based authentication for secure external access.*
- *Created database models and relationships using TypeORM and PostgreSQL to handle complex data like insurance types, patient profiles, and document attachments.*
- *Built interactive frontend interfaces with DevExtreme components for data visualization and form handling.*
- *Implemented secure file upload systems and email notification services to automate communication with patients.*

NestJS

PostgreSQL

Vue.js

DevExtreme

OAKWOOD

Frontend Developer

A comprehensive web application for managing cooperage (barrel manufacturing) operations. The system includes modules for production planning, task tracking (repairs/rejections), shift management, device (scanner) administration, and label printing. It features a dashboard for visual analytics of production metrics and supports multiple languages.

- *Developed the single-page application (SPA) using Vue.js and the DevExtreme component library.*
- *Implemented complex UI modules for Dashboard, Planning, Tasks, and Device management.*
- *Managed global application state using Vuex.*
- *Integrated RESTful APIs via Axios and handled real-time updates using Socket.io.*
- *Implemented internationalization (i18n) for multi-language support (English, French).*

Vue.js

Vue Router

DevExtreme

SCSS

Axios

PLUGIO

Mobile Developer

Mobile application for managing smart cards and content. Helps users organize, manage, and quickly access important information through a friendly interface and smart features.

- *Developed cross-platform mobile application using React Native.*
- *Designed and built intuitive user interfaces for managing digital cards and content.*
- *Integrated smart features and optimized application performance to ensure a smooth user experience.*

React Native

React Query

GITLAB CUSTOMIZER

Full Stack Developer

Deployment and customization project for GitLab on self-hosted servers. The goal was to tailor the interface, workflows, and integrate extended features to optimize DevOps processes and meet specific organizational security and operational requirements.

- *Installed, configured, and optimized GitLab instances on Linux Server infrastructure, ensuring high availability and data security.*
- *Performed deep customization of the user interface and business logic using Ruby on Rails to align with internal processes.*
- *Developed and integrated new Frontend components using Vue.js to enhance user experience.*
- *Established and managed CI/CD pipelines, performed system upgrades, and maintained stable operations for the GitLab instance.*

Ruby on Rails

Vue.js

GitLab

Linux Server

PostgreSQL

FONGFLUENCY

Full Stack Developer

A comprehensive language learning platform designed to enhance fluency through structured practice and AI-driven feedback. The system consists of a NestJS backend and a React frontend, featuring interactive modules for vocabulary, topics, and speaking challenges. It leverages advanced AI integrations for speech-to-text, grading, and personalized content generation.

- *Designed and developed the RESTful API using NestJS, implementing modules for authentication, user management, and content delivery.*
- *Built the responsive web frontend using React, TypeScript, and Vite, utilizing Material UI and TailwindCSS for a modern UI.*
- *Integrated multiple AI services (OpenAI, Anthropic, Google Gemini) and Deepgram for advanced speech recognition and automated grading/feedback.*
- *Implemented real-time features using Socket.IO for interactive learning sessions and updates.*
- *Managed application state and side effects using Redux, Redux Saga, and React Query.*
- *Deployed and optimized the application on an Ubuntu VPS, utilizing PM2 for production process management and Caddy as a secure reverse proxy.*

NestJS

TypeScript

React

Vite

MongoDB

Material UI

Generative AI

JUMP

Mobile App Developer (React Native)

Jump is a comprehensive fitness and coaching mobile application that bridges the gap between clients and coaches. The app facilitates personalized training by offering features such as custom workout plans, nutrition/meal planning, real-time messaging, and progress tracking with detailed statistics. It also includes contract management and secure payment processing.

- *Developed and maintained the cross-platform mobile application using React Native and TypeScript.*
- *Implemented core coaching features including Workout Sessions, Fitness Calendar, and Meal Planning.*
- *Integrated Firebase services (Auth, Firestore, Messaging) for real-time chat, authentication, and push notifications.*
- *Implemented secure payment gateways and contract management using Stripe.*
- *Managed complex application state and asynchronous side effects using Redux Toolkit and Redux Saga.*
- *Built interactive charts and statistics modules to visualize user progress using Gifted Charts.*
- *Handled multi-language support (i18n) to make the app accessible to a wider audience.*

React Native

TypeScript

Redux Toolkit & Saga

Firebase

Stripe

React Navigation

Reanimated

PERSONAL PRODUCTS

SPEAKING ENGLISH BY SHADOWING

[▶ Google Play](#)

Improve pronunciation, rhythm, and speaking fluency with the Shadowing technique. Follow native speakers, repeat naturally, and track progress through daily speaking practice.

ZODIAC & TAROT READINGS - AI

[▶ Google Play](#)

A modern spiritual companion that helps you understand yourself and your future through Tarot readings, zodiac insights, daily horoscopes, and inspirational guidance. Powered by AI for more personalized interpretations, this app is perfect for those who love astrology and mystical exploration.

DRIVING THEORY TEST – CAR LICENSE UK

[▶ Google Play](#)

Prepare for the UK driving theory exam with real-format questions and mock exams.

ANTVOCA

[▶ Google Play](#)

Master 30,000 English words grouped by topics, supported by quizzes, flashcards, and fun memory games.

XIEXIE – LEARN CHINESE EASILY

[▶ Google Play](#)

A friendly and structured app for learning Chinese from beginner to advanced. Practice vocabulary, grammar, speaking, listening, reading, and writing with smart lessons and interactive exercises.

ARENA OF VALOR HEROES GUIDE

[▶ Google Play](#)

A must-have app for Arena of Valor players. Explore detailed hero stats, top-tier builds, emblems, items, counters, and advanced strategies. Discover teammates with the matchmaking feature, post recruitment messages, and join a vibrant community of AoV fans.

J97 FAN CLUB – FIREFLY FAMILY

[▶ Google Play](#)

The ultimate fan app for Jack (J97). Enjoy his full music playlist, explore exclusive photos, chat with an AI version of Jack, and stay updated with the latest news, schedules, and fan activities.

SKY FC – SƠN TÙNG M-TP FAN APP

[▶ Google Play](#)

A dedicated fan zone for Son Tung MTP. Listen to his music collection, browse exclusive photos, chat with an AI version of Son Tung MTP, and receive instant updates about schedules, news, and community events.

LOVE FORTUNE, LOVE DAY COUNTER

[▶ Google Play](#)

Discover your love destiny through zodiac analysis, compatibility tests, and traditional fortune-telling methods. Get predictions about future relationships, emotional trends, and romantic opportunities.

ATVNCG 2024 FAN APP – TOP 33 CONTESTANTS

[▶ Google Play](#)

Follow detailed info of all 33 contestants, event updates, media, and exclusive fan activities.

ADI THEORY TEST UK – DRIVING INSTRUCTOR EXAM PREP

[▶ Google Play](#)

Prepare for the ADI theory exam with updated questions, explanations, and mock tests.

PCV THEORY TEST – PASSENGER VEHICLE EXAM PREP

 Google Play

Study for the UK PCV theory exam with practice tests and learning materials.

LGV THEORY TEST – LARGE GOODS VEHICLE PREP

 Google Play

Practice LGV theory exam questions with detailed explanations and progress tracking.

MOTORCYCLE THEORY TEST – UK EXAM PRACTICE

 Google Play

Learn motorcycle theory with updated questions, mock tests, and study tips.

ENGLISH FOR YOU- LEARN ENGLISH

 Google Play

Improve English listening and speaking with a huge library of English videos categorized by topic and level.

ANTENGLISH

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Improve English listening and speaking with a huge library of English videos categorized by topic and level.