

# Tai Tran

Full-stack Developer

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**Portfolio** <https://ralph.id.vn>



## Overview

- I'm a passionate full-stack developer specializing in .NET and React/Next.js, with a strong focus on performance optimization and scalable architecture. I apply Domain-Driven Design (DDD) and Clean Architecture principles to build robust backend systems, implementing Redis caching, security measures, rate limiting, and database migrations. On the frontend, I craft high-performance applications using React, Next.js, Redux, and Zustand, achieving excellent Lighthouse scores through lazy loading, tree-shaking, and code splitting. I'm also proficient in Node.js, Vue.js, Nuxt.js with experience in PostgreSQL, SQL Server, Docker, and server infrastructure deployment.
- My greatest strength is my ability to quickly adapt to new technologies—I view learning a new technology as an exciting opportunity rather than a challenge.



## Work experience

05/2022 – 05/2023

### Freelance Developer

*Frontend Developer*

- Designed and implemented user interfaces from Figma designs for Web3 short video platform
- Developed core features including authentication (login/register), multi-account login, video watching, video upload, and user profiles
- Integrated RESTful APIs and managed frontend-backend communication
- Optimized video upload performance and implemented preloading strategies for seamless video playback
- Enhanced user experience by implementing video preloading on scroll for short video feeds
- Developed additional features for existing recruitment management system based on client requirements

05/2023 - Present

### MGI Solutions

*Full-stack Developer*

- Developed reusable code and libraries: Designed and implemented reusable code and libraries to optimize performance and ensure consistency across future projects.
- Optimized application performance and compatibility: Ensured the application operated smoothly across various platforms and browsers, optimizing load times and enhancing user experience.
- Collaborated with software engineering teams: Worked closely with engineering teams to design, develop, and maintain web application features, ensuring they met user and client requirements.
- Designed and managed databases: Created and maintained necessary databases for applications, ensuring data was stored securely and could be retrieved efficiently.
- Developed and integrated APIs: Built and integrated APIs to connect various application components and external services as needed.
- Implemented Enterprise-Grade Security: Designed secure architectures compliant with HIPAA regulations to protect sensitive user data. Applied robust Rate Limiting and throttling strategies to prevent abuse, ensuring system availability and resilience against traffic spikes.

## Skills

- Main**
- Front-end Development: Proficient in HTML, CSS, and JavaScript frameworks (ReactJS, NextJS, Nuxt) with TypeScript, responsive design, cross-browser compatibility, and performance optimization.
  - Back-end Development: Skilled in C#, .NET, Nodejs, PostgreSQL, SQL Server, and Docker for efficient server-side and database management.
- Other**
- Proficient in Git for efficient version control and collaboration.
  - Skilled in Figma and Photoshop for UI/UX design and graphic editing.
  - Strong communication and teamwork abilities.
  - Experienced with Prettier, ESLint, and Husky to maintain code quality and enforce standards.
  - Familiar with Vite and Webpack for efficient project bundling and build optimization.

## Projects

### Dental CRM

(01/2025 - Present)

<b>Client</b>	<b>4MGI</b>
<b>Description</b>	Dental CRM is a customer relationship management system for dentistry, integrated with PMS and Whatconvert to synchronize patient data and marketing. The project provides Sankey chart to track the conversion rates from Lead to completed treatment, Treatment Tracker manages treatment plans and appointments, marketing control panels using AI analysis effect from Whatconvert, and workflow management feature to help employees optimize the job.
<b>Number of members</b>	6
<b>Position</b>	Full-stack
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Developed and deployed integrations with Patient Management Systems (PMS) as well as marketing platforms like WhatConvert, to synchronize patient data and marketing analytics.</li><li>• Designed and built the Sankey diagram feature to visualize conversion rates from lead to treatment completion, providing insights into the patient journey.</li><li>• Created the Treatment Tracker module, enabling clinic staff to efficiently manage patient information, treatment plans, and appointments.</li><li>• Implemented the marketing dashboard using AI to analyze data from WhatConvert, providing accurate conversion rates and predictive analytics to optimize marketing strategies.</li><li>• Developed the workflow management tool to help clinic staff organize and track tasks, enhancing operational efficiency.</li><li>• Designed and implemented a multi-tenant architecture, allowing the CRM to support multiple dental clinics with isolated data environments, ensuring security and scalability.</li><li>• Implemented real-time collaboration features enabling dentists and doctors to coordinate patient data collection and treatment planning more effectively, improving team communication and patient care workflows.</li><li>• Implemented Enterprise-Grade Security: Designed secure architectures compliant with HIPAA regulations to protect sensitive user data. Applied robust Rate Limiting and throttling strategies to prevent abuse, ensuring system availability and resilience against traffic spikes.</li></ul>
<b>Technology in use</b>	<ul style="list-style-type: none"><li>• Frontend: NextJS, React Query, Shadcn</li><li>• Backend: .NET 9, Postgresql, Microservices, ABP Framework</li></ul>

## CMS 4MGI

(04/2024 - 03/2025)

<b>Client</b>	<b>4MGI</b>
<b>Description</b>	Visual headless CMS
<b>Number of members</b>	8
<b>Position</b>	Full-stack
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Developed an intuitive drag-and-drop interface for seamless web page creation.</li><li>• Implemented dynamic field management for effortless addition, editing, and removal of content elements.</li><li>• Built a robust content management system to create, organize, and manage various content types.</li><li>• Integrated granular user role management to ensure secure and efficient control.</li><li>• Enhanced SEO capabilities with built-in tools for managing meta tags, URLs, and keywords.</li><li>• Supported multilingual functionality to cater to a diverse user base.</li></ul>
<b>Technology in use</b>	<ul style="list-style-type: none"><li>• Frontend: NextJS, React Query, Shadcn UI</li><li>• Backend: .NET, Postgresql</li></ul>

## CMS Drberg

(9/2023 - 2/2024)

<b>Client</b>	<b>Drberg</b>
<b>Descriptions</b>	CMS is computer software or an application that uses a database to manage all content, and it can be used when developing a website
<b>Number of members</b>	6
<b>Position</b>	Full-stack
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Develop required functionalities</li><li>• Building reusable code and libraries for future use</li><li>• Application updates and maintenance</li></ul>
<b>Technology in use</b>	<ul style="list-style-type: none"><li>• Frontend: Nuxt</li><li>• Backend: .NET, SQL Server, Redis</li></ul>

## Shop Drberg

(9/2023 - 9/2024)

<b>Client</b>	<b>Drberg</b>
<b>Descriptions</b>	E-commerce application
<b>Number of members</b>	> 10
<b>Position</b>	Frontend Developer
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Develop required functionalities</li><li>• Developing an ADA-compliant website</li><li>• Optimization of the frontend application for the best performance and highest compatibility of multiple devices and browsers</li><li>• Building reusable code and libraries for future use</li><li>• Application updates and maintenance</li></ul>
<b>Technology in use</b>	<ul style="list-style-type: none"><li>• Frontend: NuxtJS</li><li>• Backend: Magento, .NET</li></ul>

## Pidol: The First Short Video Streaming Platform Built on Web3

(07/2022 - 01/2023)

<b>Client</b>	<b>Pidol</b>
<b>Description</b>	Pidol is an innovative short video streaming platform built on Web3 technology. It offers content creators a decentralized environment to share their work, ensuring greater control and ownership over their content.
<b>Number of members</b>	8
<b>Position</b>	Frontend Developer
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Developed a decentralized short video streaming platform using Web3 technology.</li><li>• Enabled content creators to retain full ownership and control over their work.</li><li>• Implemented transparent monetization and distribution mechanisms.</li><li>• Fostered a vibrant community for collaboration and engagement.</li><li>• Leveraged decentralized networks to enhance security, transparency, and user autonomy.</li></ul>
<b>Technology in use</b>	<ul style="list-style-type: none"><li>• Frontend: NextJS, React Query, Redux</li><li>• Backend: NestJS, MongoDB, Redis, MetaMask</li></ul>

## Nha Khoa Hoang Kim

(5/2022 - 7/2022)

<b>Client</b>	<b>Nha Khoa Hoang Kim</b>
<b>Description</b>	Website introducing dental clinics to provide information about the clinic, services, team of doctors, certifications, promotions, contacts, etc.
<b>Number of members</b>	3
<b>Position</b>	Full-stack Developer
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Create user interface from design</li><li>• Develop required functionalities</li><li>• SEO</li></ul>
<b>Technology in use</b>	<ul style="list-style-type: none"><li>• Frontend: NextJS</li><li>• Backend: StrapiJS</li></ul>

## Chat App

(7/2022- 10/2022)

<b>Client</b>	<b>Individual</b> ( <a href="https://github.com/taitranhoo2302/chat-app">https://github.com/taitranhoo2302/chat-app</a> )
<b>Descriptions</b>	A personal project that focuses on developing core social interaction features, including real-time chat, video calling, music streaming, and friend management. The aim is to create an engaging and interactive application with seamless user experience, real-time synchronization, and robust functionality.
<b>Number of members</b>	1
<b>Position</b>	Full-stack
<b>Responsibilities</b>	Real-time Chat: <ul style="list-style-type: none"><li>• Build messaging with WebSocket, media sharing, and read receipts.</li><li>• Synchronize messages across devices.</li></ul> Video Call: <ul style="list-style-type: none"><li>• Implement video calls with WebRTC, screen sharing, and call notifications.</li></ul> Music Listening App: <ul style="list-style-type: none"><li>• Create music streaming, playlists, and track queue management.</li></ul> Friend Management: <ul style="list-style-type: none"><li>• Enable friend requests, accept/reject actions, and manage friend lists.</li></ul>
<b>Technology in use</b>	<ul style="list-style-type: none"><li>- Frontend: NextJS, i18n, Tailwindcss, Redux toolkit</li><li>- Backend: NestJS, SocketIO, Passport, Redis, MongoDB</li></ul>

 **Education**

9/2020 - 12/2023

Phu Xuan University

Bachelor of Information Technology

- Classification: Excellent
- Average score: 3.73/4