

# TRAN TAN DAT

Software Engineer

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## PROFILE

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Experience in .NET Core, .NET Framework, and RESTful API development with 3 years of delivering scalable, high-performance applications. Skilled in applying Agile/Scrum methodology to ensure efficient teamwork and timely project completion. Strong collaborator with a focus on problem-solving and adaptability to meet evolving requirements. Passionate about learning and applying new technologies to deliver high-quality and impactful results.

## TECHNICAL STACKS

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**Programming Languages:** C#, Typescript.

**Frameworks/Platforms:** .Net/.Net Core Framework.

**Databases:** SQL Server, PostgreSQL.

**Object-Relational Mapping (ORM):** Entity Framework (EF) / Entity Framework Core (EF Core).

**Coding Principles:** Expertise in clean code, best practices, design patterns, code refactoring, and applying principles like OOP, SOLID, and KISS to create maintainable and reusable code.

**Architectural Patterns:** RESTful API.

**Development Methodologies:** Agile, Scrum.

**IDEs (Integrated Development Environments):** Rider IDE, Visual Studio, Visual Studio Code.

**Foreign Languages:** English.

**Soft Skills:** Critical Thinking, Teamwork, Logical Thinking.

## WORK EXPERIENCE

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**Project: Environmental Resource Management System (ERMS)**

Aug 2023 - Current

Project Description:

Developing a system to manage users and roles, perform predictive health checks for both workers and natural resources, and store and export results. The project aims to ensure system reliability by monitoring and maintaining the resources and health of workers, providing data for better decision-making and optimization.

Team size: 12

Position: Software Engineer

Technologies:

- Backend: .Net , Entity Framework, API web services.
- Frontend: Angular, SCSS, TypeScript.
- Database: SQL Server.

Responsibilities:

- Collaborated with clients and the team in Malaysia within an Agile/Scrum environment to clarify requirements, estimate task completion times, and propose solutions.
- Developed new features and addressed system issues to improve stability and user experience.
- Optimized the PDF export feature, reducing processing time from 2 minutes to 5 seconds for over 30,000 records.
- Wrote and executed SQL migration scripts.
- Integrated the application with other projects and third-party systems.

## WORK EXPERIENCE

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### **Project: HIP Chat**

Nov 2022 - Aug2023

#### Project Description:

This internal website serves as an intermediary platform for Petronas' management and staff to submit questions. The website forwards these questions to an AI system, which reads the user's question, searches Azure Blob Storage for the most relevant documents, and returns an answer to the user along with proper citations.

#### Team size: 4

#### Position: Software Engineer

#### Technologies:

- Backend: .Net , Entity Framework, API web services.
- Frontend: Angular, SCSS, TypeScript.
- Database: SQL Server.

#### Responsibilities:

- Implemented SSO login functionality for company users via company-issued email and automatically assigned permissions to new employees.
- Enhanced email-sending functionality by transitioning from SMTP to MSGraph, improving performance and reliability.
- Developed new features, wrote and executed SQL migration scripts, and fixed bugs to ensure system stability.
- Integrated the application with other projects and third-party systems to enhance functionality and user experience.
- Collaborated directly with end users and the development team in Malaysia to estimate task completion times, provide solutions, and onboard new team members.

### **Project: Environmental Resource Management System (ERMS)**

Nov 2022 - Jul 2023

#### Project Description:

ERMS is an integrated software solution designed to track, monitor, and manage environmental resources across multiple facilities. It provides organizations with the tools to efficiently manage their environmental impact, including tracking greenhouse gas emissions, hazardous and non-hazardous waste generation, water usage, and more.

#### Team size: 20

#### Position: Software Engineer

#### Technologies:

- Backend: .Net , Entity Framework, API web services.
- Frontend: Angular, SCSS, TypeScript.
- Database: SQL Server.

#### Responsibilities:

- Collaborating directly with clients and the team in Malaysia within an Agile/Scrum methodology to clarify requirements, estimate task completion time, and propose solutions.
- Developing new features.
- Writing and executing SQL migration scripts.
- Maintaining and enhancing chart functionalities, managing data exports.
- Fixing bugs reported by users to ensure system stability and functionality.

## EDUCATION

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### **Bachelor's Degree in Information Systems.**

Sep 2018 - May 2022

Can Tho University of Technology Can Tho, Vietnam.

## CERTIFICATES

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- Nano Degree Full Stack Web Development, Udacity  
[Certificate Link](#)
- TOEIC:  
Score: 645