



## NGUYEN TRI TOAN

### Tech Lead

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### Summary:

With over 12 years of experience in software development, I have deep intensive knowledge of application development and relevant experience in Software Development Life Cycles. Demonstrates planning, analytical, solution, goal-oriented, problem-solving skills and the ability to follow through with projects from inception to completion. My technical background allows me to be at the forefront of innovation by always thinking outside the box to find creative solutions to complex problems. I can work efficiently as part of a team or independently with solid leadership skills.

### Expert Skills:

- Scrum/Agile development environment.
- Communicating and working directly with partners/product-owner.
- Managing projects through the entire project life cycle.
- Cloud services (AWS): EC2, S3, API Gateway, CloudFront, Route 53, Lambda, IoT Core, Cloud Formation,...
- Development/Management tools: Gitlab, Jenkin, Redmine, Jira.
- Languages and frameworks: Javascript, NodeJS, NestJS, React, React-Native, HTML, C#, Java.
- Databases: SQL Servers, MySQL, Postgres, MongoDB, Elastic Search.
- OS and others: Linux, Mac OSX, Docker.

### Experience Skills:

- Languages and frameworks: Unity, C++, Go, Python, Play, Dart, Flutter.
- Databases: SQLite, Redis, DynamoDB, Firebase (Realtime database, Firestore), Solr.
- OS and others: Windows, Android, iOS, Google Cloud, K8S, K3S.

### Work History:

- **04/2022 - Current: Efiware ApS, position: Senior software engineer (remote)**  
Working for Efiware is my first time doing a remote job. So, I accepted to start with a position lower than the position I was in before. I take on tasks and conversations with my manager and team members. Analyze, plan, confirm, and do it together. We used Jira, JavaScript-based development (NodeJS, React, React-Native, Typescript), MongoDB, MySQL, AWS.
- **01/2017 - 06/2021: SETFIL WTC JSC, position: software technical leader**  
Water ecosystem: (AWS, Nodejs, Loopback3, NestJS, React, ReactNative, C++, MongoDB, PostgreSQL): develop an ecosystem to help the company manage water supply full circle from water source to customer (water source, plant, supply, customers). We've made many positive changes to our company's business, and it has helped the company reduce management costs and water loss.

- + Water Source (NodeJS, Loopback3, NestJS, MongoDB, PostgreSQL, React): Quality and quantity monitoring groundwater and surface water. The sensors transmit data to the AWS Cloud via 3G (UDP, FTP, .... It depends on the sensor device).
- + Water Plants (NodeJS, Loopback3, NestJS, MongoDB, PostgreSQL, React): Monitoring factory status (operating capacity, motor, water quality, quantity) and communicating with the SCADA team. Get data from Scada or directly from sensors sent to AWS.
- + Water Supply (NodeJS, Loopback3, NestJS, MongoDB, PostgreSQL, React, React Native, NativeBase): This project monitors the water pipes that carry water from the factory to the client. The sensors are arranged along the pipeline and sent to AWS via 3G.
- + Water Customer (NodeJS, Loopback3, NestJS, MongoDB, PostgreSQL, React, React Native, NativeBase): It helps the water company manage customers and balances the water supply system.
- + Datalogger device (C++, ATmega chips): This was a hardware project and was not ready for production. It gets data from the sensors and sends it to AWS (using 3G), supporting multiple protocols (Analog, 4-20mA, I2C, SPI, RS485, CAN).
- + Log Hub (NodeJS, NestJS, MongoDB): Received data from data logger (via FTP, UDP, HTTP, MQTT), preprocessed, and stored.
- **11/2010 - 12/2016: GNT VN Co., Ltd, positions: developer, leader**
  - + E-commerce project (C#, SQL Server, MongoDB, Solr search), four years. Positions: developer - 1 year, leader - 3 years. An e-commerce website (mobion.jp) for feature phones and smartphones devices. This project used Custom MVC.NET 2.0. View templates stored in the database. View template renders dependent on device type (device type detected by User-Agent HTTP header and device id. Ex: Android, iOS, Docomo feature phone, Softbank feature phone, Au feature phone).
  - + Game project (Unity game engine, C#, Java Play framework), position: frontend leader for two years. The game's name is "Monster Party" (Japanese name: モンスター ドライブ レボリューション 【回転革命RPG】), an RPG game. It used Unity Game Engine for Android, iOS, and Java Play framework for the backend. I managed the tasks of the monster management screens. It was my first time participating in a game project.
- **2008 - 10/2010: Fujinet Systems JSC, position: developer**
  - + Web developer (PHP + MySql) - 1 year. Develop an e-commerce website with PHP MARS framework (a private framework of the partner). My tasks are to create some functions in the product management screen.
  - + Web developer (Java + Oracle) - 6 months. An internal management application of a construction company.
  - + Application developer (C#), six months. Patient management for hospitals. I created some screens for image review.

## Education:

- University of Science Ho Chi Minh City:
  - + Graduated College of Information Technology (2006).

**Languages:**

- Vietnamese: native.
- English: verbal and written.

**Interests:**

- I like soccer, table tennis and listening to music.