

Tuan Duong Nguyen

Full-stack Software Engineer

BASIC INFORMATION

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PROFESSIONAL SUMMARY

- 4 years of experience in software development
- Passionate spirit of creating high-quality software through work and continuous learning
- Strong problem-solving skills and good knowledge of computer science principles, data structures, and algorithms, SOLID, DRY, KISS
- Strong Java, JavaScript, and React
- Have working experience with:
 - Programming Language: Java, JavaScript, TypeScript
 - Database: MySQL, PostgreSQL, MongoDB
 - Libraries and Frameworks: Spring ecosystem, React, NextJS, ExpressJS
 - Testing: JUnit, Mockito, Jest, Playwright
 - Cloud: AWS
 - Other tools: Git, Docker

PROFESSIONAL EXPERIENCE

May 2022 - Present

Position	Software Engineer
Organization	Manabie International Pte Ltd
Description	<ul style="list-style-type: none">→ Develop performance and robust code for the internal product (Learning - Teaching Management system)→ Utilize DDD and TDD best practices in development, and write tests to ensure product quality→ Collaborate with cross-functional teams on a daily basis→ Tools: Java, PostgreSQL, React, GraphQL

Jul 2020 - April 2022

Position	Full-stack Developer
Organization	AI&T Vietnam
Description	<ul style="list-style-type: none">→ Design, implement, monitor, and optimize APIs for a microservices-based system of e-commerce→ Integrate 3rd-party payment services into purchasing flow of the platforms→ Develop web applications from scratch using modern FE libraries→ Tools: Java, React, AWS, NextJS, MySQL, MongoDB

Jun 2019 - Jun 2020

Position	Android Framework Engineer
Organization	Samsung Vietnam Mobile R&D Center
Description	<ul style="list-style-type: none">→ Work on the Multimedia Framework of Android OS which is responsible for managing software/hardware codecs for encoding, decoding, and rendering audio/video, providing

Java APIs for the application layer, talking to components of the native layer

- Conducted research, maintenance, and development of features related to multimedia frameworks using Java and appropriate design patterns, ensuring high performance and quality
- Wrote unit tests for existing, to-be-implemented packages
- Tools: plain Java

EDUCATION

Aug 2015 - Jun 2019

Hanoi University of Science and Technology

Major: Bachelor of Science in Electronics and Telecommunication

NOTEWORTHY PROJECTS

Manabie Learning Management System

Project Description:

A learning/teaching management system that provides a powerful tool to manage various aspects of the education process. For example, Teachers, Staff, Books, Learning Materials, Courses, Timesheets, ... The system significantly helps improve the performance of managers, teachers, and students.

Responsibilities:

- Implement high-performance, reusable UI components for internal packages
- Analyze, design, and implement Back-End APIs for the system
- Optimize SQL and GraphQL queries for improved performance
- Write Unit and End-to-End tests to ensure code quality

- Review PRs, support technical issues, resolve technical debt, and research new technical requirements

Technologies:

- Java, TypeScript
- React, Material UI, Playwright
- PostgreSQL, GraphQL, Kafka

Hokatsu Assist

Project Description:

An information lookup website that helps to search, manage, and PR for nurseries.

Technologies:

- TypeScript, JavaScript, Java
- React, Spring Boot
- MySQL, Redis

Gochimeshi/Bizmeshi

Project Description:

An e-commerce system that helps restaurants, shops, and companies provide/sell meal tickets, and vouchers.

Responsibilities:

- Benchmark and optimize the performance and user experience of Web applications for optimal performance
- Design, implement, and enhance HTTP/REST APIs for microservices of @Gochimeshi and @Bizmeshi e-commerce systems, which involved handling a large number of partners, associated restaurants, and users
- Work with AWS services like EC2, S3, CloudFront, CloudWatch, SQS, and others to deploy and manage web applications

Technologies:

- Java, TypeScript, JavaScript
- React, Redux, Material UI, Bootstrap
- Spring Boot, Spring Data JPA, Spring Security
- MySQL, MongoDB, Redis, AWS

PoSA (Point-of-Sale Activation)

Project Description:

A digital asset protection solution that uses 3S Smart Barcodes to track products from manufacturing to point-of-sale, making them non-functional until activated.

Technologies:

- Java Spring, MySQL
- Cloud services: EC2, S3, Lambda, SQS