

Tuan Duong Nguyen

Full-stack Software Engineer

BASIC INFORMATION

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PROFESSIONAL SUMMARY

- 5 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, Kotlin
 - Database: MySQL, PostgreSQL, MongoDB, Redis
 - Libraries and Frameworks: Spring ecosystem, React, NextJS, ExpressJS
 - Testing: JUnit, Mockito, Jest, Playwright
 - AWS: EC2, ECS, SQS, CloudWatch, Lambda, ...
 - Other tools: Git, Docker

PROFESSIONAL EXPERIENCE

Nov 2023 - Present

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|--------------|--|
| Position | Senior Java Developer |
| Organization | FPT Software / NCS |
| Description | <ul style="list-style-type: none">→ Designs and implements microservices architecture→ Utilizes cloud services for scalability→ Ensures resilience with fault-tolerance mechanisms→ Implements monitoring, logging, and alerting for system health→ Ensures security practices and compliance→ Collaborates with and mentors the team→ Maintains thorough documentation for the codebase and processes→ Tech stack: Spring, Kotlin, React, AWS ecosystems |

May 2022 - Oct 2023

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|--------------|--|
| Position | Software Engineer |
| Organization | Manabie International Pte Ltd |
| Description | <ul style="list-style-type: none">→ Develop performance and robust code for the product using well-designed workflows that follow the best CI/CD patterns→ Utilize DDD and TDD best practices in every development process (modeling, architecting, implementing, testing, documenting)→ Collaborate with cross-functional teams on a daily basis following Agile/Scrum→ Contribute concise and valuable documents (technical and business) for the team→ Tech stack: Java, PostgreSQL, React, GraphQL |

Jul 2020 - April 2022

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|--------------|---|
| 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→ Work with cloud services of AWS, ensure high availability, scalability, reliability, and performance of the system→ Integrate 3rd-party payment services into the purchasing flow of the platforms→ Take the main responsibility of developing web applications from scratch using modern FE libraries→ Tools: Java, React, AWS, NextJS, MySQL, MongoDB |

Jun 2019 - Jun 2020

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|--------------|---|
| Position | System 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

Our Marriage Journey System

Project Description:

A microservices-based system assists couples that are getting married in Singapore. This service is provided by the Registry of Marriages and the Registry of Muslim Marriages.

Technologies:

- Kotlin, TypeScript
- Spring Boot, Spring Data JPA
- Postgres, Flyway, AWS RDS
- AWS ECS, CloudWatch, API Gateway, ...
- React for the Front-End

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:

- Take ownership of the Timesheet domain and related code
- Implement high-performance, reusable UI components for internal packages
- Analyze, design, and implement Timesheet service following DDD principles + layer architecture
- Optimize SQL and GraphQL queries, detect and resolve bottlenecks within a service or communications between services
- Implement Unit and End-to-End tests for better product quality and continuous integration
- 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, Lambda, ...

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, SNS