

# Tuan Duong Nguyen

## Full-stack Software Engineer

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## Professional Summary

- Experienced Full-Stack Software Engineer with almost 6 years of expertise in Java and React, specializing in designing, building, and scaling robust microservices architectures and large-scale systems, leveraging AWS for cloud solutions.
- Skilled at writing clear, concise code that easy to maintain and troubleshoot
- 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

## Professional Experience

### Senior Software Engineer @ FPT Software / NCS

Sep 2023 - Present // Hanoi, Vietnam

#### Major project:

- 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.

#### Responsibilities:

- Successfully performed Tech Upgrade for a large-scale microservices system, which involved upgrading the system from Java 11 to Java 17, Spring Boot 2 to Spring Boot 3, and other related technologies.
- Leveraged authorizations and authentication using OAuth2 with Keycloak, and Spring Security.
- Scripted unique solutions for local development & testing of system which speed up the development process for the whole team.
- Reviewed code actively for the team, provided technical guidance, and mentored junior developers.

#### Technologies:

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

### Software Engineer @ Manabie

May 2022 - Aug 2023 // Remotely

#### Major project:

- Manabie Learning Management System

#### Project description:

## Skills

### Programming Languages

Java, Kotlin, TypeScript, ES6

### Database

MySQL, PostgreSQL, MongoDB, Redis

### Libraries & Frameworks

Spring ecosystem, React ecosystem, MUI

### Cloud

AWS: EC2, ECS, SQS, CloudWatch, Lamda, ...

### Testing

JUnit, Mockito, MockK, Jest, Playwright

## Education

### Hanoi University of Science and Technology

2015 - 2019 // Hanoi, Vietnam

Bachelor of Science in Electronics and Telecommunication

## Certifications

### AWS Certified Solutions Architect - Associate certification

May 2024

### freeCodeCamp Front End Development Libraries Certification

May 2021

## Interests

Coffee, Work-out, Traveling

- › 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:

- › Designed and developed reusable software components which used in multiple projects with reducing development effort by 30%.
- › Optimized SQL and GraphQL queries for improved performance and reduced response times by 50%.
- › Utilized DDD, TDD best practices in every development process
- › Utilized Behavior Driven Development (BDD) practices and wrote Unit and End-to-End tests for ensuring code quality.
- › Collaborated with cross-functional teams on a daily basis following Agile/Scrum

Technologies:

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

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**Developer @ AI&T Vietnam**

Jul 2020 - April 2022 // Hanoi, Vietnam

Major project:

- › Gochimeshi/Bizmeshi

Project description:

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

Responsibilities:

- › Successfully integrated multiple payment gateways, including Stripe, PayPay, and Alipay, into the e-commerce system, increasing the number of payment options for users.
- › Enhanced web applications performance which reduced page load times by ~80% and increased PageSpeed Insights scores from under 30 to 90+.
- › Developed monitoring and reporting system that is able to detect suspects and send notifications to the team in near real-time.

Technologies:

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

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**Engineer @ Samsung Vietnam Mobile R&D Center**

Jun 2019 - Jun 2020 // Hanoi, Vietnam

- › Worked extensively on the Android Multimedia Framework and Samsung SmartView features, including casting screens and multimedia to other displays and other related smart features
- › Conducted research, maintenance, and development of features using Java, and Kotlin, ensuring high performance and quality.

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**Developer Intern @ FPT Software**

Oct 2018 - Dec 2018 // Hanoi, Vietnam

- › Built applications for IOS devices using Unity and ARKit frameworks that assisted construction engineers in accurately installing large turbines