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:
> A learning/teaching management system that provides a powerful tool to manage various aspects of the education process. For example, Teachers, Staff, Books,

Skills

Programming Languagues
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

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

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

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.

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