

Tuan Duong Nguyen

Full-stack Software Engineer

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About

- 4 years of experience in software development
- Expertise skills in Web development, particularly with React, NodeJS, Java
- Passionate spirit of creating high-quality software through work and continuous learning
- Good research and problem-solving skill
- Strong problem-solving skills and good knowledge of computer science principles, data structures, and algorithms

Professional Experience

Engineer @ Manabie

May 2022 - Present // Remotely

- Developed performant and robust code for internal products using modern technologies, such as TypeScript, JavaScript, React, React Query, GraphQL, Hasura, gRPC, Jest, Playwright, Golang, ExpressJS, PostgreSQL, and Kafka.
- Implemented new high-performance, reusable UI components or customized/composed from existing 3rd-party libraries for internal packages.
- Contributed to the migration of Micro-frontend architecture.
- Utilized Behavior Driven Development (BDD) practices and wrote Unit and End-to-End tests for ensuring code quality.
- Analyzed, designed, and implemented Back-End APIs for the system, following a clean microservices architecture.
- Optimized SQL and GraphQL queries for improved performance.
- Wrote kSQL data transformation scripts for the data warehouse.
- Reviewed code, supported technical issues, resolved technical debt, and researched technical requirements, wrote technical specs for new features.
- Collaborated closely with cross-functional teams of engineers, product managers, technical leaders, and designers on a daily basis to deliver high-quality products.

Developer @ AI&T Vietnam

Jul 2020 - April 2022 // Hanoi, Vietnam

- Acted as a key member of the front-end team, developing Web applications from scratch using frameworks such as React, Redux, Bootstrap, and Material UI.
- Benchmarked and optimized the performance and user experience of Web applications for optimal performance.
- Designed, implemented, and enhanced HTTP/REST APIs for microservices of @Gochimeshi and @Bizmeshi e-commerce systems, which involved handling a large number of partners, associated restaurants, and users.

Skills

Languages

TypeScript, JavaScript, HTML, CSS, Java, SQL, Kotlin, C/C++

Libraries & Frameworks

React, Redux, React Material UI, Bootstrap, React Query, Jest, React Testing Library, Java Spring Boot, NodeJS, ExpressJS, React Native, Android Frameworks

Tools & Platforms

Git, Webpack, VS Code, IntelliJ IDEA, PostgreSQL, Docker, AWS, Figma, Adobe XD, Contentful, Vercel

Education

Hanoi University of Science and Technology

2015 - 2019 // Hanoi, Vietnam

Bachelor of Science in Electronics and Telecommunication

Certifications

freeCodeCamp Front End

Development Libraries Certification

May 2021

TOEIC Certificate with score 755

June 2020

Interests

Music, Coffee, Gym, Traveling

- › Worked with AWS services like EC2, S3, CloudFront, CloudWatch, SQS, and others to deploy and manage web applications.
 - › Integrated 3rd-party payment APIs, such as Stripe, PayPay, Alipay, and WeChatPay, into the purchasing flow of the platforms.
 - › Maintained marketing websites built using Next.js, retrieving data from Contentful, and deploying on Vercel.
 - › Utilized technologies such as TypeScript, JavaScript, React, ExpressJS, MongoDB, Material UI, Java Spring, MySQL, React Native, AWS, Firebase, Redis, and others to deliver high-quality web applications and services.
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Engineer @ Samsung Vietnam Mobile R&D Center

Jun 2019 - Jun 2020 // Hanoi, Vietnam

- › Worked extensively on the Android Multimedia Framework, including software/hardware codecs for encoding, decoding, and rendering audio/video on Android devices.
 - › Developed Samsung SmartView features, including casting screens and multimedia to other displays and other related smart features, involving capturing, encoding, and transferring media.
 - › Conducted research, maintenance, and development of features related to multimedia frameworks using C/C++, 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

Noteworthy Projects

Manabie Learning Management System

May 2022 - Present

Project Description:

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

Highlights:

- › Micro-frontend architecture
- › Internal UI library packages
- › Strong typed APIs by using gRPC, GraphQL
- › Back-End microservices architecture
- › Unit/Integration/End-to-End tests

Technologies:

- › TypeScript, JavaScript, Golang
 - › React, ExpressJS, Material UI, React Query, Jest, Playwright
 - › PostgreSQL
 - › Hasura, gRPC, Kafka
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Hokatsu Assist

Oct 2021 - April 2022

Project Description:

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

Technologies:

- › TypeScript, JavaScript
 - › React, ExpressJS, Bootstrap
 - › MySQL, Redis
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Gochimeshi/Bizmeshi

Oct 2020 - April 2022

Project Description:

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

Highlights:

- › Big management website that allow users of different roles to manage everything
- › Integrated multiple payment methods
- › Complex business logics extracted for maintainability and scalability
- › Back-End microservices architecture
- › Auto generate, deploy new systems for new partners
- › Well-performance, search engine optimized, responsive product website

Technologies:

- › TypeScript, JavaScript
- › React, Redux, Java Spring, ExpressJS, Bootstrap, Material UI
- › MySQL, MongoDB, Redis, AWS

PoSA (Point-of-Sale Activation)

Jul 2020 - Oct 2021

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. Powered by Digital Safety, it offers live tracking, detailed reporting, and protection against return fraud.

Highlights:

- › Well-architected microservices for efficient and scalable operations.
- › Optimal usage of multiple AWS eco-services, including EC2, S3, Lambda, SQS, for various functionalities.
- › Highly availability and load systems designed to handle high loads with low response times.
- › Reliable monitoring and notifications system for effective performance tracking and issue notifications.

Technologies:

- › Java Spring, MySQL
- › AWS