Nguyen Tho Tuan

Senior Backend Engineer

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Summary

Backend Engineer with 5+ years of experience building scalable payment and financial systems in production environments.

Currently a Senior Software Engineer at VNG working on large-scale payment infrastructure including wallet services, payment gateways, promotion systems, and subscription payments supporting digital commerce across ASEAN markets.

Strong experience in Java backend development, microservices architecture, distributed systems, and high-reliability financial transaction processing in production environments.

Skills

Languages: Java, C++, Node.js
Backend: Spring Boot, Microservices, REST APIs, gRPC
Infrastructure: AWS, Jenkins, CI/CD, SonarQube
Data & Messaging: MySQL, MongoDB, Apache Kafka
Domain: Payment Systems, Wallet Systems, Distributed Systems

Experience

VNG Corporation — Ho Chi Minh City

Senior Software Engineer
Jul 2025 – Present

- Designed and implemented promotion voucher system supporting reward distribution and discount campaigns for in-game purchases.
- Developed backend services for VNGGames Shop ensuring scalability and reliability of payment flows.
- Refactored legacy payment modules to improve maintainability and support future system scaling.

Software Engineer
Mar 2023 – Jun 2025

- Developed core wallet services handling financial transactions and balance management for the VNGGames payment ecosystem.
- Implemented multi-tenant database architecture supporting horizontal scalability.
- Built subscription / auto-debit system enabling recurring payments from wallet and linked funding sources.
- Improved service communication latency by implementing gRPC-based microservice communication.
- Participated in backend development of digital card distribution platform serving ASEAN markets.

Associate Software Engineer
Feb 2022 – Mar 2023

- Built internal billing admin tools enabling operations teams to configure payment flows without engineering support.
- Integrated payment APIs with PayPal, Adyen and regional partners.
- Developed automated reconciliation system for VNPT Mobile Money and other payment providers.
- Improved code quality through unit testing and SonarQube coverage integration.

HD Expertise — Ho Chi Minh City

Java Developer
Oct 2020 – Oct 2021

- Developed backend modules using internal Java frameworks.
- Contributed to backend development for cesti.gov.vn science and technology portal.
- Built a mobile Sales Calculator application.

Education

Bachelor of Information Technology - University of Science (VNUHCM)
GPA: 8.62

Certifications

AWS Certified Cloud Practitioner
Jenkins: Automating Your Delivery Pipeline
Apache Kafka Series – Learn Apache Kafka for Beginners
Java Spring Boot E-Commerce Ultimate Course
Building Scalable Java Microservices with Spring Boot and Spring Cloud