

# Nguyen Thanh Phuong

Fullstack Software Engineer

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## Summary

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Software Engineer with 5+ years of experience designing and building banking and trading systems using Java, Spring Boot, and modern frontend frameworks (React, Angular). Proven track record in delivering scalable microservices, improving system performance in fintech/banking domains.

## Work Experience

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### NAB Innovation Centre Vietnam

Ho Chi Minh City, Vietnam

Software Engineer

Oct 2024 – Present

- Delivered full-stack features with ReactJS on the frontend and Java/Spring Boot on the backend, ensuring business rules were correctly implemented and aligned across systems.
- Acted as a Feature Engineer, collaborating with BAs, Product Owners, and Solution Designers across Vietnam and Australia to refine requirements and own end-to-end delivery of key banking features.
- Improved system reliability by diagnosing production issues, proposing architectural improvements, and maintaining high test coverage following Agile and CI/CD practices on AWS.

### EPAM Systems

Ho Chi Minh City, Vietnam

Full Stack Engineer

May 2023 – Sep 2024

- Engineered full-stack features for a global equities trading platform using Angular and Java/Spring Boot, consistently delivering against sprint milestones in an Agile environment.
- Served as SRE engineer, diagnosing and resolving critical production incidents across frontend and backend layers, reducing mean time to resolution (MTTR) for high-severity issues.
- Enforced code quality standards through systematic code reviews and refactoring sessions, aligning team practices with clean code and SOLID principles.

### Shinhan DS Vietnam

Ho Chi Minh City, Vietnam

Software Engineer

Mar 2021 – Apr 2023

- Developed web applications using Java and Spring Boot, optimizing API calls and database queries for improved performance.
- Optimized database queries and indexing strategies, reducing average API response time by 30% and improving overall application throughput.

## Education

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### HCMC University of Technology and Education

Ho Chi Minh City, Vietnam

B.Eng. in Information Technology, High Distinction

Aug 2020 – Jun 2023

- Received academic encouragement scholarships for excellent achievements.
- Graduated as valedictorian with a high distinction degree ahead of schedule.

### International University - VNU HCMC

Ho Chi Minh City, Vietnam

B.Eng. in Electrical and Electronics Engineering, Very Good

Aug 2017 – Jun 2020

- Awarded a full scholarship for outstanding performance in the Entrance Examination.

## Awards

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### Odon Vallet Scholarship by Vallet Fellowship

Rencontres Du Vietnam

Awarded to top-performing university students for exceptional academic achievements in Vietnam

Aug 2023

### 3rd Prize in the National Mathematics Olympiad 2017

Ministry of Education & Training

Achieved a bronze medal in the National Mathematics Contest 2017

Jul 2017

### 2nd Prize in the National Mathematics Olympiad 2016

Ministry of Education & Training

Achieved a silver medal in the National Mathematics Contest 2016

Jul 2016

## Certifications

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<b>Generative AI for Software Development</b> by DeepLearning.AI	June 2025
<b>Algorithms</b> by Stanford University	Dec 2024
<b>Graph Developer - Professional</b> by Apollo GraphQL	Nov 2024
<b>EF SET English Certificate 70/100 (C1 Advanced)</b> by EF SET	Oct 2024
<b>Software Engineer Certificate</b> by HackerRank	May 2024
<b>Frontend Developer (React)</b> by HackerRank	Oct 2023

## Skills

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**Languages:** Java, TypeScript, HTML, CSS

**Frameworks:** Hibernate, Spring Boot, React, Apache Kafka, RabbitMQ, Camunda, OpenAI API

**Databases:** PostgreSQL, MySQL, MongoDB, Redis

**Cloud & Infrastructure:** AWS (Textract, S3, EC2), Docker, Jenkins, Rancher, Kubernetes, Hashicorp

**Development Tools:** Git, GitHub, GitLab, SonarQube, Snyk, Postman

## Projects

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### Home Ownership

NAB Innovation Centre Vietnam

- Designed and developed multiple microservices including notification, transaction, and customer profile services using Java, Spring Boot, Camunda, and Kong API Gateway, ensuring seamless integration with legacy banking systems.
- Built an intelligent document processing microservice leveraging AWS Textract for OCR and OpenAI GPT for AI-powered data extraction, automating customer document validation workflows and eliminating manual data entry.
- Increased code coverage from 15% to 80%, enhancing maintainability and reducing future bugs.
- Collaborated with cross-functional teams to ensure the seamless integration of the new service with existing systems.
- Conducted Acceptance, Integration, Regression, Smoke, and System Integration Testing (SIT) on AWS, helping reduce defects and earning QE team recognition.

### Trading System

EPAM Systems

- Designed and implemented a robust two-factor authentication service to enhance security.
- Integrated and optimized registration verification steps using ReCaptcha, and Twilio.
- Enhanced application performance by 25% using Redis caching and implemented robust data replication strategies to ensure high availability.
- Reviewed and refactored legacy modules to improve code maintainability, reduce coupling, and meet scalability requirements.
- Achieved high test coverage through unit and integration tests using JUnit5 and Mockito, enabling confident refactoring and regression safety.

### Human Resource Management

Shinhan DS Vietnam

- Architected back-end services using Domain-Driven Design (DDD) and Test-Driven Development (TDD), establishing a clean separation of domain logic from infrastructure concerns.
- Implemented token-based authentication & authorization and OAuth2 login with Google, and Facebook.
- Configured and supported continuous integration and deployment processes using GitLab.
- Contributed to migration from legacy Spring MVC monolith to Spring Boot microservices, reducing technical debt and improving deployment flexibility.

### Financial Reporting & Analysis

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- Resolved security vulnerabilities with input validation and sanitization, preventing potential data breaches and safeguarding user information.
- Built an automated email notification service using Spring Mail and AWS SES, supporting transactional alerts and scheduled financial report delivery.
- Implemented data export pipelines to Excel and CSV formats using Apache POI, enabling finance teams to generate on-demand regulatory reports.
- Integrated AWS S3 for data storage, optimization, and reporting.
- Performed unit and integration testing with JUnit5, Mockito, and Testcontainers following BDD principles.