Nguyen Quang Vinh

Backend Software Engineer (Java)

Contact: contact@vinhnq.com · portfolio.vinhnq.com · github.com/Nqvinh7603 · linkedin.com/in/nqvinh76

Profile

Java Backend Engineer with 3 years of experience, mainly in banking and fintech: digital signature platforms with HSM/PKI and VNeID integration, document automation for Standard Chartered Bank, and the NAPAS ACH interbank payment gateway. Currently the main backend engineer of a multi-tenant SaaS and responsible for production releases of two live platforms.

Skills

Domain	Banking & fintech (digital signature/PKI, interbank payment, payment gateway, document workflow), multi-tenant SaaS
Backend	Java (17, 21), Spring Boot, Spring Security (JWT, OAuth2), Spring Cloud, MyBatis, JPA/Hibernate, QueryDSL, Flyway
Architecture	RESTful API design, microservices, hexagonal architecture, event-driven (Kafka), multi-tenancy, RBAC
Data & messaging	PostgreSQL, MySQL, Oracle, SQL Server, Redis, Apache Kafka
Integrations	Toss Payments, Kakao AlimTalk, OAuth2 social login, PDF signing (PAdES, PKCS#7) with HSM (PKCS#11), Activiti BPMN
DevOps & tools	Docker, Kubernetes, Helm, GitLab CI, GitHub Actions, AWS (ECS Fargate, EKS, RDS, S3, CloudFront), Prometheus, Grafana, Linux (LPI certified), JUnit 5, Mockito, Git

Experience

Wala-ICT · Backend Software Engineer — 04/2026 – Present

S-Space · Pilates & fitness studio SaaS

Backend Engineer · Team of 5 · live at s-space.co.kr

- Maintained and debugged the production AWS environment: VPC with private subnets, ECS Fargate, Multi-AZ RDS, ALB, CloudFront, S3, and Secrets Manager.
- Handled production releases through GitLab CI → ECR → ECS Fargate as main backend maintainer of the auth, user, and center services.
- Built a reconciliation job that recovers payments with lost success callbacks and expires stale pending ones.
- Extended Toss Payments with a head-office merchant flow for B2B orders: idempotent confirmation, cancel and refund, fee and settlement tracking.
- Implemented configurable payroll settlement periods and migrated legacy member data with re-runnable scripts, verified on staging first.

BitBuild · Multi-tenant construction procurement SaaS

Main Backend Engineer · Team of 4 · first sprint to production

- Restructured the codebase into a multi-module hexagonal architecture, with ArchUnit tests enforcing boundaries.
- Used idempotency keys against duplicate purchase orders and advisory locks for run-once scheduled jobs.
- Set up GitLab CI and Docker Compose deployments with health checks.
- Built multi-tenant authentication: JWT with refresh-token rotation, Redis-based revocation, social login, and RBAC with data scopes (self, assigned sites, tenant-wide).
- Owned the domain model, PostgreSQL schema, and REST APIs for procurement, contract, approval, and supplier modules.

Miribom · Beauty booking with AI face simulation

Backend Engineer · Team of 9 · live at miribom.kr

- Built Kakao AlimTalk notifications end to end: template APIs and an outbox-based sender with SKIP LOCKED claiming, retry with back-off, and SMS fallback.
- Integrated the Spring backend with a FastAPI AI service: async jobs with status polling, retry limits, and locking against duplicate re-queues.
- Owned production releases through GitLab CI on self-hosted runners, with Docker Compose builds and Caddy reverse proxy reload.
- Delivered refund flows and card payment for deposits with Toss Payments.

Unit Technology Corporation · Backend Software Engineer, R&D 11/2024 – 03/2026

Signature Hub · Centralized digital signing platform

Backend Software Engineer · Team of 4 · banks and enterprises

- Built backend services for signing through HSM, remote-signing providers, and VNeID.
- Worked on the event-driven signing flow across Spring Boot microservices on Kafka.
- Implemented PDF signing and validation (PAdES, PKCS#7) with HSM integration via PKCS#11.

ACH Gateway · NAPAS interbank payment gateway

Backend Software Engineer · Team of 12 · banking

- Implemented inward-deposit processing on ISO 20022 pacs.008 with validation, business rules, status tracking, and process logging.
- Developed reconciliation against NAPAS and Core Banking records to detect mismatches.
- Optimized SQL for transaction logs and latest-status lookup.
- Implemented the camt.033 copy-transaction flow.

Paperless · Digital signature module

Main backend of the signing module · Team of 6

- Built internal signing, external signing by email, and third-party eSign integrations including VNeID.
- Implemented signature revert and signer reassignment so an in-progress flow can roll back or change signers without restarting.
- Fixed bugs and refactored the module to keep multi-step signing workflows stable.

Easy Doc · Document automation for Standard Chartered

Backend Software Engineer · Team of 5 · banking

- Built backend APIs for digital forms and document automation on the Paperless platform.
- Implemented document processing and multi-level approval workflows with Activiti BPMN.
- Developed Quartz batch jobs on SQL Server and covered services with JUnit and Mockito.

JCanary Core · Internal Java and Spring framework

Backend Software Engineer · Team of 5 · in-house platform

- Contributed reusable modules: secrets management with HashiCorp Vault, multi-database data access, storage abstraction, and shared HSM signing utilities.

Laptrinhjavaweb · Backend Developer 09/2023 – 10/2024

Java backend development.

Straffico · Freelance Backend Engineer 08/2025 – Present

Straffico · Project and cost control for construction companies

Backend Engineer · Freelance · Java 21

- Built the GitHub Actions deployment for dev and prod: the JAR is built on the runner, then a blue-green switch releases it with zero downtime.
- Added a deploy lock so two repositories never release to the same server at once.
- Reconciled actual and system fund balances, and built analytics, report builder, and resource schedule APIs.
- Added Web Push notifications, user activity audit, and support request IDs correlated across responses and logs.

Education & certification

Can Tho University · Software Engineering — 09/2021 – 05/2025

Linux Professional Institute (LPI) · Linux certification — 12/2024