Nguyen Tan Khoa

Software Developer

Software Developer with 2+ years building Java/Spring Boot backends and React/Next.js frontends — from multi-tenant SaaS and event-driven microservices (Kafka) to enterprise e-office systems. Strong in API security (JWT, RBAC, Keycloak, SSO) and containerized deployment.

CONTACT

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WORK EXPERIENCE

Software Developer | 7/2026 - Now
AI AAS JSC

PROJECT: AAS - AI Automation System
AI-powered marketing automation platform for content generation, social media publishing, SEO auditing, and marketing analytics.

Responsibilities

- Developed **Java 21/Spring Boot microservices** with **Kafka-based event-driven architecture**.
- Developed responsive dashboards using **React**, **TypeScript**, **Tailwind CSS**, and **Zustand**.
- Implemented **AI-powered content/video generation** and **integrated TikTok, Facebook, and YouTube APIs** for automated publishing.
- Built **SEO auditing**, marketing funnel analytics, background jobs, and campaign scheduling features.

Tech Stack: Java 21, Spring Boot, Kafka, React 19, TypeScript, MySQL, Redis, Keycloak, Docker, Kubernetes, MinIO, REST APIs, Social Media APIs.

Project Outcome

- Automated multi-channel content creation and publishing, reducing manual campaign execution.

PROJECT: AAS Telesale - AI Voice Telesales Platform
Multi-tenant AI telesales platform for AI voice agents, outbound calling campaigns, omnichannel lead management, and real-time call monitoring.

Responsibilities

- Developed **Java 21/Spring Boot** services for AI voice agent provisioning, knowledge bases, and outbound batch-calling campaigns built on the **ElevenLabs Conversational AI API**.
- Built **Kafka-based event processing** for call events and asynchronous AI call analysis, automatically scoring calls, updating lead status, and syncing outcomes to CRMs.
- Implemented live call control (whisper, warm transfer to salespeople, end call) over **WebSocket**, with real-time notifications via **SSE** and Web Push.
- Integrated Facebook Messenger, Zalo OA/ZNS, Google Calendar/Sheets, and 7 CRM connectors (Salesforce, HubSpot, Zoho, SugarCRM, etc.) through a pluggable connector architecture.
- Developed **React/TypeScript** dashboards for campaigns, live monitoring, omnichannel inbox, lead pipeline, and reports, plus a mobile web app for salespeople.

Tech Stack: Java 21, Spring Boot, Spring AI (MCP), Kafka, OpenFeign, MySQL, Flyway, Keycloak, React, TypeScript, Vite, ElevenLabs API, Facebook Graph API, Zalo API, Docker, Kubernetes.

Project Outcome

- Delivered an end-to-end AI telesales workflow covering lead capture, automated AI calling, call analysis, salesperson handoff, and CRM sync.
- Built Decree 91 compliance into every campaign: do-not-call numbers are filtered out before calls start, and consent is tracked per number.
- Built an MCP server with Spring AI so AI agents can manage campaigns, leads, and conversations, reusing the same service layer as the REST API.

Software Developer | 3/2026 - 7/2026

NEWTECH DTP CORP

PROJECT: Enterprise E-Office Systems (VOffice)

Large-scale enterprise e-office and document management platform for document processing, search, reporting, authentication, and digital signatures.

Responsibilities

- Developed enterprise business logic using **Java**, **Spring**, and **Hibernate**, with **Oracle DB**.
- Built interactive enterprise UIs using **ZK Framework** and **AJAX-based components**.
- Implemented centralized **SSO authentication** with **CAS/ADFS** and full-text search using **Apache Solr**.
- Improved application performance with **Memcached** and implemented document reporting workflows using **JasperReports**.
- Integrated **SignCA** for secure electronic document signing and approval workflows.

Tech Stack: Java, Spring, Hibernate, Oracle DB, ZK Framework, Apache Solr, Memcached, CAS/ADFS, JasperReports, SignCA.

Project Outcome

- Supported a **large-scale enterprise e-office** and **document management platform** for digital document operations.

Software Developer | 6/2024 - 2/2026

Thadosoft JSC

PROJECT: Factory Management System Projects

Delivered full-stack factory management applications for enterprise clients, with secure APIs, role-based access control, and on-premise deployment.

Responsibilities

- Developed secure **RESTful APIs** using **Spring Boot** and **Spring Security**, with **JWT-based authentication** and **RBAC**.
- Developed modular **React** interfaces with dynamic routing and reusable UI components.
- Designed **MySQL** data models and persistence layers for factory management systems.
- Containerized applications with **Docker** to support offline and on-premise deployments.
- Collaborated with clients from **requirements analysis and workflow design through development, deployment, and documentation**.

Tech Stack: Java, Spring Boot, Spring Security, React, MySQL, Docker, JWT, REST API.

Project Outcome

- Delivered multiple **full-stack factory management applications** for enterprise clients.

SKILL

Java | Spring Boot | JavaScript | TypeScript | ReactJS | NextJS | Tailwind CSS | Git | Keycloak | MySQL | PostgreSQL | Oracle DB | Microservices | Docker | Redis | Kafka | MinIO | Kubernetes

EDUCATION

Bachelor of Engineering in Information Technology | 2021 - 2025

Ho Chi Minh City University of Agriculture and Forestry

CERTIFICATE

English Certificate B1

Issued by University of Agriculture and Forestry

AWARD

Merit Scholarship | 2021 - 2022, 2022 - 2023 | GPA 8.0+

Ho Chi Minh City University of Agriculture and Forestry