

HAI NGUYEN VU

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Successfully completed all academic requirements for an Information Technology degree, currently seeking a full-time Software Engineer role to deploy scalable systems and AI-integrated solutions. Strong mindset in quality assurance with experience building hybrid automation frameworks.

WORK EXPERIENCE

Internship

Jul 2025 - Sep 2025

FUJINET SYSTEMS JSC

Waseco Building, Ho Chi Minh City

- Research and apply the enterprise application development framework TERASOLUNA (based on the Spring Framework).
- Participate in developing project modules using Spring TERASOLUNA; directly develop the Frontend (user interface) and implement the Backend functionalities according to the detailed project specifications.
- Research semantic processing and search libraries: Chroma (Vector Database) and LangChain (LLM Application Development Framework).
- Successfully apply the all-MiniLM-L6-v2 model and use Chroma for storage/querying to demo a small Q&A program.

EDUCATION

Bachelor's Information Technology

Jan 2021 - Present

Posts and Telecommunications Institute of Technology, Ho Chi Minh City

GPA: 7.15

- Status: Completed all major-related coursework
- Expected Graduation: Pending final English certification
- Availability: Ready for immediate, full-time employment

SKILLS

Database: PostgreSQL, MySQL, Couchbase, Chroma (Vector DB)

Backend: Java (Spring Boot, Spring MVC), Node.js (Express), TypeScript

Frontend: ReactJS, Next.js, Vue.js, Android (XML)

Infrastructure/Tools: GitHub, Docker, Postman, AWS EC2

PROJECTS

System Monitoring Dashboard (Full-stack & Automation) [↗](#)

Mar 2026 - Mar 2026

Tech Stack: Node.js (Express), Next.js, SSE, Playwright, AWS AC2

Description: Developed a real-time system monitoring application that tracks and displays computer hardware performance metrics.

Key Accomplishments:

- Real-time Data Processing: Built a Node.js server to collect live system data, including CPU usage, RAM stats, and the number of connected monitors.
- Live Stream Implementation: Established bi-directional or stream communication using Server-Sent Events (SSE) to push updates to the UI in real-time.
- Automated Testing: Designed a full-system test suite using Playwright to validate API stability, data accuracy, and UI rendering under constant updates.
- Cloud Deployment: Deployed the full-stack application to a cloud platform (AWS EC2), ensuring the server is accessible and stable in a production environment.

System Microservices Page Socials [↗](#)

Jun 2025 - Aug 2025

Team Size: 3

Tech Stack: Spring Boot, Spring Security, PostgreSQL, Couchbase, Eureka, Kafka, Redis, Graylog, Elasticsearch, WebSocket, RESTful API, React (TypeScript), Cloudinary, Spotify API

Description: A distributed, service-oriented social networking system built with Microservice Architecture for scalability, maintainability, and real-time interaction.

My Role:

Microservices Design & Development: Engineered the Music Service (Spotify integration), Notification Service (Kafka & WebSocket), and Search Service (Elasticsearch).

Real-time Data Processing: Implemented asynchronous messaging via Apache Kafka and bi-directional communication using WebSockets to optimize notification performance and user engagement.

Key Features:

- API Gateway: Centralized routing and authentication for all microservices.
- User & Presence Services: User management, profiles, and real-time online status.
- Post & Notification Services: Post creation, interaction, and live notifications.
- Message Service: Real-time chat with WebSocket and persistence.
- Search & Trending Services: Elasticsearch-powered search and trend analysis.
- Music Service: Spotify integration for in-app music streaming.
- Crypto & Log Services: Secure data encryption and activity monitoring.

Stationery Management [↗](#)

Feb 2025 - May 2025

Team Size: 4

Tech Stack: React (TypeScript), Firebase, Spring Boot, Spring Security, MySQL, Java (Android), MoMo API, Cloudinary, RESTful

API Description: A client-server stationery management platform that streamlines product ordering and inventory control for both organizations and individuals, improving operational efficiency.

My Role: Developed backend APIs with business logic, authentication, and database integration. Build Android UI and connected the mobile client to the Spring Boot server.

Key Features:

- Social Login: Integrated Google authentication.
- JWT Security: Secured Spring Boot APIs with JWT.
- Easy Ordering: Users can browse and order stationery via web or mobile apps.
- Efficient Order Processing: Full order lifecycle management — from placement to delivery.
- MoMo Payment Integration: Fast, secure online payments.
- Cloud Storage: Image and file management via Cloudinary

CERTIFICATIONS

TOEIC 450 by IIG VIET NAM

Sep 2025

LANGUAGES

English: Intermediate (Reading & Writing technical documents)