

NGUYEN VAN MINH

Full-stack Developer Intern

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An Nhon Ward, Ho Chi Minh City, Vietnam

SUMMARY

Final-year Software Engineering student focusing on full-stack web development, with hands-on experience in Java/Spring Boot backend development and React.js/Next.js frontend development. Skilled in building RESTful APIs, authentication and authorization flows, responsive user interfaces, database-driven applications, and frontend-backend integration. Familiar with MySQL, PostgreSQL, MongoDB, Redis, Git, Docker, AWS, and cloud-based deployment. Seeking a Full-stack Developer Intern position to contribute to real-world projects and continue improving backend architecture, frontend development, and deployment skills.

EDUCATION

Industrial University of Ho Chi Minh City - IUH

Ho Chi Minh City, Vietnam

Major: Software Engineering

Sep 2022 – Present

GPA: 3.2 / 4.0

SKILLS

Technical Skills

- **Languages:** Java, JavaScript, TypeScript, SQL
- **Frontend Development:** React.js, Next.js, React Native, Redux Toolkit, TanStack Query, HTML5, CSS3, Tailwind CSS, shadcn/ui, Responsive Design, Cross-browser Compatibility
- **API Integration:** RESTful API Integration, Fetch API/Axios, Postman, Swagger/OpenAPI
- **Backend Development:** Spring Boot, Spring MVC, Spring Security, Spring Data JPA, WebSocket/STOMP, Hibernate
- **Databases:** MySQL, MariaDB, PostgreSQL, MongoDB, Redis
- **Tools:** IntelliJ IDEA, Visual Studio Code, Cursor IDE, Maven
- **DevOps & Cloud:** Docker, Git, GitHub Actions, AWS (IAM, EC2, RDS, DynamoDB, S3, CloudFront)

Soft Skills

- **Collaboration:** Effective teamwork, communication, knowledge sharing, and experience working in Agile/Scrum environments
- **Problem Solving:** Analytical thinking, testing, debugging, troubleshooting, attention to detail, and ability to improve code quality

PROJECTS

Aurora Hotel Management System

Team size: 4 | Role: Full-stack Developer

Tech Stack: Spring Boot, LangChain4j, PostgreSQL, pgvector, React.js, Redux Toolkit, Tailwind CSS, Docker, AWS

- **Frontend Interfaces:** Built responsive admin/customer interfaces with React.js, Redux Toolkit and Tailwind CSS for hotel operations, booking flows, dashboards and management modules.
- **Auth & RBAC:** Built JWT access/refresh workflow with introspection and invalidation, OAuth2 resource server configuration and 5 roles (Admin / Manager / Staff / Customer / Guest) with 70+ permissions.
- **API Integration:** Integrated RESTful APIs for authentication, booking, payment and management workflows with loading states, form validation and error handling.
- **Payments:** Integrated VNPay Sandbox with IPN processing, payment status tracking.
- **AI Assistant:** Integrated AI-powered RAG chatbot using Google Gemini, LangChain4j, pgvector semantic search, document upload/chunking and streaming responses.
- **Deployment:** Deployed to AWS EC2 with Docker Hub CI/CD pipelines using GitHub Actions.

Repository: <https://github.com/nvminh162/aurora-hotel-management-system>

Production: <https://aurora-hotel.nvminh162.id.vn>

Chatly Social Platform

Team size: 4 | Role: Full-stack Developer

Tech Stack: Spring Boot, WebSocket/STOMP, PostgreSQL, MongoDB, Redis, React.js, React Native, Zustand, AWS

- **Frontend Experience:** Built responsive social UI flows for feeds, conversations, real-time chat, stories and reels with reusable components and RESTful API integration.
- **Auth & Security:** Built JWT authentication, refresh tokens, email verification, password reset/change and RBAC admin access.
- **Real-Time Chat:** Developed real-time chat APIs with Spring WebSocket/STOMP, supporting private/group conversations, typing/seen events, edit/recall/delete, forwarding, reactions, polls, pinned messages, mentions, unread counts and search.
- **Group Collaboration:** Implemented group collaboration backend with roles, invite links, join approvals, ownership transfer, notes, reminders and scheduled reminder system messages.
- **Data & Storage:** Designed hybrid PostgreSQL + MongoDB persistence and integrated AWS S3 for media/file storage.

Repository: <https://github.com/nvminh162/chatly-social-platform>

Production: <https://chatly.nvminh162.id.vn>

Nexatech E-commerce - Microservices

Team size: 4 | Role: Full-stack Developer

Tech Stack: Spring Boot, Kong Gateway, Keycloak, Apache Kafka, PostgreSQL, MongoDB, Redis, Next.js, AWS

- **Identity & Access Management:** Implemented Keycloak-based login, register, token refresh/logout, social login support, password recovery and session revocation workflows.
- **User & Permission Management:** Built user profile, address book, onboarding, avatar upload and admin user lifecycle APIs with role/group/permission management facades.
- **Audit Traceability:** Integrated Kafka-based audit events with centralized MongoDB audit storage, filtering, pagination, trace lookup and business-flow investigation support.
- **Notification Service:** Built Kafka consumers for user/order/payment/inventory events, in-app notification APIs, email delivery with user preferences and scheduled retry handling for failed notifications.

Repository: <https://github.com/nvminh162-archive/nexatech-ecommerce>

Library Management System - Microservices

Team size: 1 | Role: Backend Developer

Tech Stack: Spring Boot, Kong Gateway, Axon Framework, AxonServer, Apache Kafka, PostgreSQL, Redis, Docker

- **Microservices Architecture:** Designed and built a distributed system with 6 independent Spring Boot services (Book, Borrow, Employee, User, Notification, Gateway), registered via Netflix Eureka Discovery and routed through Spring Cloud Gateway.
- **CQRS & Event Sourcing:** Implemented CQRS with Axon Framework and AxonServer — separating Command/Query models, persisting every state change as an immutable event stream with full audit history and point-in-time recovery.
- **Saga & Distributed Transactions:** Engineered a BorrowingSaga orchestrating cross-service distributed transactions - checking book availability, validating employee discipline status, and automatically rolling back all affected services via compensating transactions on failure.
- **Event-Driven Notifications:** Integrated Apache Kafka for async communication; implemented Retryable Topic with exponential back-off 2 multiplier, 4 attempts and Dead Letter Topic (DLT) strategy for fault-tolerant email delivery.
- **Observability:** Integrated AxonServer dashboard for monitoring of message queues, cache state and event store.

Repository: <https://github.com/nvminh162/backend-library-system>

AWARDS

Academic Excellence Scholarship - Partial (50%)

2024 - 2025

Industrial University of Ho Chi Minh City | GPA 3.42/4.0