



NGUYEN DUC KY

FULL-STACK DEVELOPER

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SUMMARY

Full-Stack Developer with hands-on experience building and shipping end-to-end web applications — from database design and backend API development to frontend interface and production deployment. Strong foundation in Java, SQL, and Linux-based server environments. Comfortable owning a full product lifecycle: requirements analysis, system design, coding, testing, and release. Interested in working on real-world systems that require both technical depth and cross-layer thinking.

SKILL

- Backend & APIs: Java, Spring Boot, Spring Framework, RESTful API Development, Third-Party API Integration (Payment Gateways, SMS Services)
- Frontend: HTML5, CSS3, JavaScript (ES6+), ReactJS, Responsive UI/UX Implementation
- Database: MySQL, MSSQL, MongoDB, SQL Query Optimization, Database Design & Normalization, Data Pipeline
- Integration: System Integration, Data Synchronization, Multi-System Data Flow, ETL Processes
- DevOps & Deployment: Linux (Ubuntu, RHEL-based), Nginx, Apache Tomcat, SSH, Server Configuration, System Monitoring, SSL/TLS Setup
- Development Tools: Git, GitHub, Postman, Maven, IntelliJ IDEA, VS Code
- Debugging & Operations: Log Analysis, Production Issue Investigation, Root Cause Analysis, Performance Tuning
- Other: Technical Documentation, Agile Workflow, AI-Assisted Development

WORK EXPERIENCE

Full-Stack Developer – System & Deployment Focus

Sep 2024 – Mar 2026

Dai Thang Mechanical Engineering Co. | HCMC (cokhidaithang.com)

- Developed and maintained full-stack web application serving 500+ daily users, covering backend logic (Spring Boot), frontend interface (Thymleaf), and production deployment on Linux servers
- Designed and optimized SQL queries for complex product catalog and reporting modules, reducing average page load time from 3.2s to 0.8s through query restructuring and strategic indexing
- Built RESTful APIs for seamless data exchange between internal CRM system and external services (VNPay payment gateway, SMS notification APIs), maintaining 99.5% uptime and reliable transaction processing
- Ensured data consistency across inventory, order, and customer modules; implemented real-time data synchronization monitoring that reduced data discrepancies by 85%
- Managed Linux server deployment (Ubuntu 22.04) with Nginx reverse proxy configuration; set up SSL certificates, automated backup scripts, and monitoring alerts to maintain 99.8% system availability
- Investigated and resolved production issues through systematic log analysis and database debugging; performed root cause analysis to implement preventive measures reducing recurring issues by 70%

Web Developer & System Support

Mar 2024 – May 2024

Viet Ha Technology Solutions JSC | HCMC (vhservices.vn)

- Maintained and enhanced legacy web systems with focus on backend performance optimization, data handling accuracy, and operational reliability
- Performed database operations including data validation, query optimization, and integrity checks across 15+ business data tables, ensuring data accuracy for financial reporting
- Collaborated with cross-functional business teams to identify system bottlenecks and workflow pain points; implemented targeted improvements that increased processing efficiency by 30%
- Monitored system performance metrics and proactively resolved data-related issues, reducing production incidents by 40% through preventive maintenance and database health checks

Web Application Developer (Fresher)

Sep 2023 – Jan 2024

Saigon Hai Phong Paint Co., Ltd | HCMC

- Developed web-based application to digitize and automate manual paint color mixing workflows, reducing formula lookup time from 15 minutes to under 30 seconds
- Designed comprehensive database structures for 200+ product formulas, color data, and mixing ratios; implemented backend calculation logic using Spring Boot for accurate color matching
- Participated actively in QA testing and debugging phases to ensure system stability, calculation accuracy, and data integrity before production rollout

Web Developer – E-commerce System

May 2023 – Aug 2023

Thu Thuy Ao Dai | Dong Nai (thoitrangthuthuy.id.vn)

- Built complete e-commerce platform from scratch covering product catalog management, shopping cart functionality, order processing, and transaction handling
- Designed normalized database schema and implemented backend logic for order processing workflow, inventory tracking, and customer data management
- Optimized system performance for fast page load times (<1.5s average); implemented basic security measures including input validation, SQL injection prevention, and secure session management

KEY PROJECTS

Dai Thang Mechanical – Industrial Machinery Business Platform

Role: Full-Stack Developer – End-to-End System Development

<https://cokhidaithang.com>

- Designed and built complete system architecture: MySQL database (25+ normalized tables), Spring Boot REST APIs (40+ endpoints), and ReactJS frontend with responsive design
- Implemented advanced product search with full-text indexing and filtering capabilities, achieving <200ms response time for catalog of 5,000+ SKUs
- Integrated third-party services including VNPAY payment gateway and SMS notification APIs with proper error handling and retry mechanisms
- Deployed on Linux Ubuntu 22.04 with Nginx reverse proxy; configured SSL/TLS, automated backups, and monitoring; achieved 99.8% uptime over 6-month period
- Diagnosed and resolved production issues including memory leaks, slow queries, and API timeout errors through systematic debugging and performance profiling
- Tech Stack: Java Spring Boot, ReactJS, MySQL, Nginx, Ubuntu Server, RESTful APIs, Third-Party Integration

OceanMachine — Full-Stack Developer – Industrial Machinery E-commerce Platform

Role: Full-Stack Developer – System Architecture & API Development

<https://maycongnghiepocean.com>

- Designed normalized database schema (3NF) with 18 core tables supporting product management, user authentication, order processing, and inventory control
- Built comprehensive RESTful APIs for product catalog, cart management, checkout flow, and order tracking; implemented JWT-based authentication and role-based access control
- Integrated VNPAY payment gateway with proper transaction logging, webhook handling, and reconciliation logic for secure online payments
- Optimized SQL queries and added strategic composite indexes, improving checkout flow performance by 60% and reducing database CPU usage by 35%
- Managed Linux server deployment with Nginx; configured load balancing, SSL certificates, and implemented automated health checks for proactive issue detection
- Tech Stack: Java Spring Boot, MySQL, RESTful APIs, JWT Authentication, Third-Party Payment Integration, Nginx

Tam An Packaging – Packaging E-commerce Website

Role: Full-Stack Developer – Complete System Build

<https://baobitaman.com>

- Built complete e-commerce system from scratch including product catalog with categorization, shopping cart, order management, and customer account features
- Designed normalized database schema with proper indexing strategy; implemented backend business logic using Spring Boot MVC pattern
- Developed responsive frontend interface with HTML5/CSS3/JavaScript; optimized assets and implemented lazy loading for improved page load performance
- Configured production environment on Linux server with Nginx; set up automated deployment pipeline and system monitoring
- Tech Stack: Java Spring Boot, MySQL, HTML/CSS/JavaScript, Nginx, Linux Server

Aztax Legal – Legal Consulting Platform

Role: Full-Stack Developer – CMS Development & Content Management

<https://phaplyaztax.com>

- Developed full-featured CMS for legal services website including article management system, service catalog, client inquiry handling, and document repository
- Designed database schema supporting hierarchical content categorization, user roles/permissions, and document version control; implemented access control logic for admin and content manager roles
- Built advanced search and filtering functionality with full-text search capabilities across articles and legal documents, enabling fast information retrieval (<300ms average)
- Implemented rich text editor integration for content creation, image upload handling with automatic resizing/optimization, and SEO-friendly URL generation
- Optimized database queries and implemented caching strategy for frequently accessed content, reducing server load by 45% and improving page response times
- Deployed and maintained production system on Linux server with Nginx; configured backup automation and monitoring for stable service delivery
- Tech Stack: Java Spring Boot, MySQL, CMS Architecture, Full-Text Search, Content Management, Linux/Nginx

EDUCATION

Bachelor of Software Applications

FPT Polytechnic College, Ho Chi Minh City | 2021 – 2024

CERTIFICATIONS & COURSES

- HTML & CSS (Basic to Advanced) — Fullstack.edu.vn (2022)
- Java Programming (OOP) — Howkteam.vn (2022)

LANGUAGE

- English: Intermediate (Reading technical documents, basic communication)

PROFESSIONAL DEVELOPMENT

Continuously expanding technical skills in full-stack development, system integration, and production operations. Currently exploring containerization with Docker, advanced middleware configuration (Apache Tomcat), microservices architecture patterns, and AI-assisted development workflows to improve code quality and productivity.