

# DUONG DUY DANH

Backend Java Spring Boot Engineer

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DOB: 20/12/1999

## PROFESSIONAL PROFILE

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*Highly skilled Backend Java Spring Boot Engineer with 4+ years of enterprise-level software development experience. Specialized in building scalable, high-performance microservices and distributed systems. Proven expertise in system architecture, database optimization, asynchronous processing, and real-time data integration. Strong track record of delivering mission-critical solutions for e-government platforms processing 1M+ transactions annually.*

## CORE TECHNICAL SKILLS

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- **Backend Frameworks:** Spring Boot, Spring MVC, Spring Data, Spring Cloud
- **System Architecture & Design:** Microservices, RESTful APIs, event-driven architecture, distributed systems
- **Message Queue & Streaming:** Kafka, Kafka Cloud, asynchronous event processing
- **Databases:** Oracle SQL, MySQL, MongoDB, Elasticsearch - query optimization, indexing, design patterns
- **Search & Analytics:** Elasticsearch, full-text search, real-time data aggregation
- **Frontend Integration:** Angular, API design, frontend-backend collaboration
- **DevOps & Tools:** Git, Maven, Postman, DBeaver, PM2, Docker basics

## PROFESSIONAL EXPERIENCE

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### VNPT - Backend Software Engineer

May 2023 - September 2025

#### 1022 Citizen Feedback Portal (Oct 2024 - September 2025)

*Core Backend Developer | Province-level e-government system processing citizen feedback & complaints at scale*

- **Microservice Architecture:** Designed & implemented core service logic with dossier workflows, status state machines, and permission-based access control
- **Spring Boot Development:** Built robust backend services using Spring Boot, Spring Data, and dependency injection patterns
- **Asynchronous Processing:** Implemented Kafka-based event streaming for distributed notification delivery; ensured eventual consistency across services
- **Search Infrastructure:** Integrated Elasticsearch for advanced filtering & indexing on 1M+ dossier records
- **Database Optimization:** Optimized Oracle/MongoDB queries, designed efficient indexing strategies, reduced N+1 query problems
- **Code Quality & Leadership:** Conducted rigorous code reviews, mentored junior developers, reduced production bugs by 30%
- **Tech Stack:** Spring Boot, Spring Data, Kafka, Elasticsearch, Oracle SQL, MongoDB, Angular

## iGate - Public Services Digitalization (Jul 2023 - September 2025)

*Full-Stack Developer | Nation-wide e-government platform automating public service delivery*

- **Distributed Systems Design:** Architected inter-service communication using Kafka/Kafka Cloud for real-time event propagation across distributed microservices
- **RESTful API Development:** Built & consumed clean REST APIs; designed data contracts ensuring seamless service orchestration; documented with OpenAPI specifications
- **Business Logic Implementation:** Developed complex workflow engines for dossier handling, task routing, and permission management supporting enterprise requirements
- **Search & Filtering:** Leveraged Elasticsearch for full-text search across workflow history; reduced search latency by 60% through indexing optimization
- **Performance Optimization:** Eliminated redundant queries, optimized database indexes, improved API response time by 45% through systematic analysis
- **Tech Stack:** Spring Boot, Spring Data, Kafka, Elasticsearch, MongoDB, Oracle SQL, Angular

## VNPT - Backend Developer (HIS Project)

*May 2024 - July 2024*

### Hospital Information System (HIS)

*Full-Stack Developer | Enterprise healthcare platform managing patient records & clinical workflows*

- **Clinical Workflow Optimization:** Modified backend services supporting complex clinical data workflows; ensured data integrity & compliance with healthcare standards
- **Complex SQL Optimization:** Optimized Oracle queries for patient data retrieval; built efficient reporting modules handling large datasets
- **Report Generation:** Integrated JasperReports for dynamic medical report generation with complex data aggregation
- **Tech Stack:** Java, Oracle SQL, JasperReports, Angular

## BIN Corporation Group - Full-Stack Developer

*September 2022 - March 2023*

- **Plugin Architecture:** Developed modular plugins enhancing web platform functionality; ensured high maintainability & scalability across 3+ platforms
- **API Development:** Built RESTful APIs supporting web & mobile applications; integrated payment processing & external notification services
- **Third-Party Integrations:** Integrated external services via webhooks & direct API calls for payment gateways and data synchronization
- **Tech Stack:** Phalcon Framework, MySQL, JavaScript/jQuery

## SweetSoft Solutions - Full-Stack Developer

*March 2021 - June 2022*

- **Full-Stack Development:** Designed & developed feature-rich modules for multiple Laravel-based platforms serving diverse client needs
- **Database Design:** Architected MySQL schemas supporting complex client requirements; implemented data normalization & optimization
- **Agile Collaboration:** Worked in fast-paced Agile environment, delivered high-quality code within tight deadlines
- **Tech Stack:** Laravel Framework, MySQL, JavaScript/jQuery

## Freelance - Frontend & DevOps Developer

*October 2025 - Present*

- **CDN & Edge Computing:** Deploy Nuxt.js applications on Cloudflare; configure edge logic, SSL/TLS, caching strategies
- **Performance Engineering:** Optimize frontend assets & implement SEO best practices for maximum performance
- **Tech Stack:** NuxtJS, JavaScript, Cloudflare, PM2

## EDUCATION

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### Bachelor of Science - Telecommunications Engineering

*Telecommunications University, Vietnam | September 2017 - May 2021*

## ADDITIONAL INFORMATION

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- **Languages:** Vietnamese (Native), English (Fluent)
- **Personal Interests:** Distributed systems design, microservices architecture, cloud-native development, open-source contribution