

LE DUY KHANG

BACK-END DEVELOPER

SUMMARY

I am a final-year Software Engineering student at FPT University with hands-on experience in Object-Oriented Design (OOD) and building robust backend systems using Java and the Spring Framework. My project experience includes developing secure RESTful APIs, managing SQL (MySQL, PostgreSQL) and NoSQL (MongoDB) databases, and implementing Spring Security (JWT/OAuth2). I am eager to apply my strong foundation in Java and Data Structures to a challenging internship role."

EDUCATION

FPT University

Software Engineer

Date:08/2022 - Present

Location: Ho Chi Minh City, Viet Nam

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SKILLS

Backend Core & Framework

- Java: OOP, Collections, Stream API, Exception Handling, Multithreading, JSP, Servlet.

CS Fundamentals:

- Data Structures (Arrays, Lists, Maps, Trees) & Algorithms (Sorting, Searching)
- Object-Oriented Design (OOD) Principles
- Problem-Solving & Analytical Thinking
- SQL: MySQL, SQL Server, PostgreSQL | NoSQL: MongoDB.
- Spring Framework: Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Spring Security.
- RESTful API Design, JSON, JWT Authentication, OAuth2 (Google Login), Exception Handling.

Frontend (Supporting):

- React, React Native, HTML5, CSS3, JavaScript (ES6+), Bootstrap, TypeScript (basic)

Tools & DevOps:

- Version Control: Git, GitHub (Projects, Issues, PR workflows, Code Reviews)
- CI/CD: GitHub Actions (basic), automated testing pipeline
- Build Tools: Maven.
- API Testing: Postman, Swagger/OpenAPI.
- Docker (Basic: Containerization for development environment, Docker-compose).
- Cloud/DevOps: AWS (EC2, S3, RDS, IAM), Docker.

Soft Skills:

- Analytical thinking, Problem-solving, Code Review, Cross-functional Collaboration (Frontend/QA), Agile Workflow

English: Good communication skills (written and verbal)

- Fluent in reading technical docs and writing technical

EXPERIENCE

AWS First Cloud Journey

9/2025-PRESENT

Description: Learned and practiced using AWS Cloud services to develop and deploy web applications. Applied key AWS services such as EC2, S3, RDS, CloudFront, and Elastic Beanstalk in real-world projects to enhance scalability and performance.

Responsibilities:

- Studied AWS core services (EC2, S3, RDS, IAM, CloudFront, Elastic Beanstalk)
- Deployed full-stack applications on AWS with focus on security and scalability
- Applied cloud best practices for database management and content delivery

PROJECTS

EV Station-based Rental System (Mobile App)

09/2025 - 10/2025

Team size: 5 | Role: Mobile Developer | [Github](#)

Description: Mobile platform for renting electric vehicles at charging stations with real-time tracking, booking management, and payment integration..

Responsibilities:

- Developed cross-platform mobile app using React Native.
- Integrated Google Maps API for station location and navigation.
- Implemented user authentication, vehicle booking/return, and transaction history.
- Connected to Spring Boot backend via RESTful APIs.
- Managed app state and local storage for offline support.

Technologies: React Native, JavaScript, Google Maps API, RESTful API integration.

Gender Healthcare Service Management System

07/2025 - 10/2025

Team size: 2 | Role: Backend Developer | Github: [FE](#) & [BE](#)

Description:

A full-stack healthcare management platform with secure user authentication, appointment scheduling, medical records management, and online payment integration. The system handles sensitive user data with strict security measures, similar to banking/fintech applications.

Backend Responsibilities & Achievements:

- Designed & implemented 15+ RESTful APIs using Java Spring Boot for user authentication, scheduling, medical records, and transaction management.
- Built secure authentication system with Spring Security, JWT, and role-based access control (RBAC) to protect sensitive data.
- Integrated OAuth2 (Google Login) for third-party authentication.
- Implemented transactional operations with JPA/Hibernate for data consistency. (similar to banking transactions)
- Developed email notification service using JavaMail and Gmail SMTP.
- Created comprehensive API documentation using Swagger/OpenAPI.
- Applied database optimization techniques (indexing, query optimization) on MySQL/PostgreSQL.
- Implemented global exception handling and data validation for system reliability.
- Wrote unit & integration tests using JUnit and Mockito. (80%+ code coverage)
- Managed environment configuration and secrets securely. (.env, application.properties)
- Documented system architecture and deployment guides in GitHub Wiki
- Conducted code reviews via GitHub Pull Requests to maintain code quality standards.

Frontend Contributions:

- Built responsive admin dashboard using React + Tailwind CSS.
- Integrated frontend with backend APIs for real-time data synchronization.
- Collaborated with frontend developer through API integration and testing.

Technologies:

Backend: Java, Spring Boot, Spring Security, JWT, OAuth2, JPA/Hibernate, MySQL
Tools: Git/GitHub, Maven, Postman, Swagger, JUnit, Mockito.