

Pham Thanh Duy

Full-stack Developer

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PROFILE

I am a Full-Stack Developer with over 4 years of experience in building and maintaining large-scale software systems. Specialized in Microservices architecture, Cloud technologies, and the Java/Spring ecosystem.

Proven ability to deliver scalable and optimized solutions, performing root cause analysis, and quickly adapt to new technologies to address complex technical challenges.

SKILLS

- **Programing Languages:** Java, JavaScript, TypeScript, HTML5, CSS3
- **Framework:** Spring Boot, Spring Security, ReactJS, VueJS, NodeJS
- **Technologies:** SQL (MySQL, SQL Server), MongoDB, Redis, Elasticsearch, Kafka, Docker, AWS (EC2, S3, Lambda)
- **Engineering Practices:** Microservices, REST/gRPC, Mockito (Unit Testing), GitHub/GitLab (CI/CD), SonarQube (Code Quality),...
- **Soft Skills:** Project Management, Problem Solving, Critical Thinking, Teamwork, Adaptability, Time Management

EXPERIENCE

- **Code88 Company** Ho Chi Minh city
Middle Software Engineer Spring 2021 – Present
 - **Building Application Structure:** Create an admin web application (ReactJS) designed to manage customers registered through the agency, rather than on the website themself. The system provides settings for daily player management and reporting.
 - **State Management Optimization:** Implemented efficient front-end state management strategy using React's Context API and memoization (useState, useMemo, useCallback,...) to avoid unnecessary re-renders. Improved rendering performance by over 40% in complex components dealing with large datasets. Applied lazy loading and data normalization techniques to optimize data flow and responsiveness.
 - **System Architecture and Migration:** Responsible for migrating the system from Java 8 to Java 17, and refactoring the architecture from a Monolithic architecture (Spring MVC) to Microservices (Spring Boot) to make the system more flexible and easier to maintain.
 - **Application Security:** Developed and integrated secure RESTful APIs using Spring Security and JWT to protect critical resources and ensure secure user authentication and authorization.
 - **High-Volume Data Processing:** Engineered a multithreaded solution to export over 1 million records to Excel, storing the output in AWS S3 to optimize performance and prevent out-of-memory issues.
 - **Asynchronous Communication:** Designed and implemented a decoupled email delivery service using Kafka, streamlining communication workflows and reducing load on the core services.
 - **Caching Strategy:** Integrated Redis for efficient cache management, significantly reducing database load and improving response times for frequently accessed data.
 - **Logging and Monitoring:** Developed an AOP-based logging system for comprehensive application monitoring, supporting rapid debugging and incident resolution.
 - **API Documentation Automation:** Develop an API documentation file management solution to automate Swagger/OpenAPI generation from endpoint description documents, supporting a rapid and standardized development process.

EDUCATION

- **Industrial University of HCM city** Sep 2016 – Oct 2020
Software Engineer