

PHAM VAN BINH — Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer focused on backend and enterprise development, with hands-on experience building Java/Spring Boot microservices and SAP ABAP solutions. Experienced in designing APIs, authentication flows, asynchronous services, and data-driven systems, with an interest in building secure, reliable, and maintainable software.

TECHNICAL SKILLS

- **Backend & Core Systems:** Java, Spring Boot, Spring Security, RESTful APIs, Microservices and Event-Driven Architecture, API Gateway, WebClient
- **Enterprise & SAP Ecosystem:** ABAP, SAP RAP, Behavior Handlers, OData Services, SAP Business Objects Integration
- **Databases & Messaging:** PostgreSQL, MySQL, JPA/Hibernate, Redis, RabbitMQ
- **DevOps & Infrastructure:** Docker, Docker Compose, GitHub Actions (CI/CD), Git, Postman, Linux
- **Frontend & Web3 Integration:** TypeScript, Next.js, Smart Contract Integration / Web3 Basics

WORK EXPERIENCE

FPT Software | *SAP OJT Trainee*

Jan 2025 – Apr 2025

- Completed an SAP ABAP training program covering ABAP development fundamentals and enterprise development practices.
- Developed and submitted ABAP assignments following FPT Software coding conventions, documentation, evidence, and submission standards.
- Collaborated in team-based assignments and presentations, following structured requirements and delivery processes in an enterprise software environment.

PERSONAL PROJECTS

Click any project title to view its GitHub repository or Live demo.

Vienext (Java, Spring Boot, Microservices, Docker) | *Solo Developer — Full-Stack & DevOps*

Nov 2025 – Present

- Architected and developed a **6-service microservices backend** using Java and Spring Boot, featuring **39 REST** endpoints + 1 **STOMP WebSocket** endpoint, PostgreSQL, RabbitMQ, and an API Gateway.
- Implemented **defense-in-depth authentication** and **authorization**, including local JWT verification at the Gateway, client identity-header spoofing protection, and signed HMAC-SHA256 internal tokens for trusted service-to-service communication.
- Eliminated **N+1 queries** in the news feed through batch queries, JPQL projections, and batch author aggregation, keeping database and service calls at a fixed **O(1) query** count per page.
- Implemented **event-driven service communication** with RabbitMQ using transactional afterCommit publishing and idempotent consumers, while securing synchronous service-to-service calls with signed internal tokens and WebClient timeouts.
- Containerized and deployed the microservices architecture with Docker Compose, using isolated network tiers and GitHub Actions pipelines for **automated staging and production deployment**.

- Designed and implemented an attachment management module using SAP RAP Unmanaged for secure file handling via OData V4.
- Developed CDS Views, Behavior Definitions, and Implementations to expose standardized APIs for SAP Fiori.
- Managed RAP save sequences and implemented backend validations using **FOR VALIDATE ON SAVE**.
- Applied BO encapsulation and transactional buffering to isolate user interaction from database persistence.
- Optimized queries using **FOR ALL ENTRIES** and enterprise identifier designs to enhance maintainability.

EDUCATION & LANGUAGES

- **Education:** Bachelor of Software Engineering (Graduated)
- **Languages:** English (Professional Working Proficiency) | Vietnamese (Native)

CERTIFICATIONS

Click any certificate title to view its detail.

- Backend Developer - SAP Cloud Application Programming Model
- Software Development Lifecycle Specialization
- Project Management Principles and Practices Specialization
- Computer Communications Specialization