MAI THANH TÙNG

Java Backend Developer

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Professional Summary

Java Backend Developer with internship experience and hands-on development of production-deployed Spring Boot applications. Experienced in RESTful APIs, Spring Security, JWT-based authorization, asynchronous AI workflows, Redis, payment integration, Docker, CI/CD, and AWS EC2 deployment.

Technical Skills

Languages	Java, SQL
Backend	Spring Boot, Spring MVC, Spring Security, Spring AI, JPA/Hibernate
Databases & Caching	MySQL, Redis
API & Security	RESTful APIs, Swagger/OpenAPI, JWT, OAuth2, RBAC, Email OTP, TOTP/2FA
AI & Integrations	Gemini API, PayOS, Webhooks
DevOps & Cloud	AWS EC2, Docker, Docker Compose, Nginx, GitHub Actions, CI/CD
Tools & Concepts	Git, Maven, Postman, Jira, OOP, DSA, SOLID, Design Patterns, Asynchronous Processing

Experience

Backend Developer Intern **Jun 2025 – Dec 2025**
CODEGYM VIETNAM JOINT STOCK COMPANY *Hanoi, Vietnam*

- Collaborated in a **7-member development team with 4 backend developers** to build and maintain a Spring Boot-based internship management system using Java, Spring Security, JPA/Hibernate, and MySQL.
- Implemented and maintained **20+ REST API endpoints** across internship applications, leave requests, support requests, sprint evaluation, team/mentor management, and reference-data modules.
- Developed end-to-end business workflows with file attachments, validation, filtering, pagination, transactional processing, and role-specific approval/rejection flows.
- Strengthened backend security using Spring Security and `@PreAuthorize`-based role authorization, and implemented a scheduled MySQL backup service with automatic retention cleanup.
- Contributed to backend maintainability through **Swagger/OpenAPI documentation, refactoring, Git-based workflows, code reviews, and pull-request integration**.

Projects

AI-Powered IT Interview Practice Platform Live Website · GitHub

Java 21, Spring Boot, Spring AI, Gemini API, MySQL, Redis, Docker *May 2026 – Sep 2026*

- Co-developed the backend for a production-deployed AI interview platform with **22 controllers, approximately 98 REST endpoints, and 22 entities**, supporting Interactive and Stress Interview modes.
- Integrated **Spring AI with Gemini** for role- and level-specific question generation, conversational context, adaptive follow-up questions, and structured evaluation output.
- Built a database-backed **prompt management system** with administrative APIs, enabling interview prompts and AI behavior to be managed without modifying application code.
- Designed asynchronous AI evaluation using Spring Events, `@Async`, and transactional event listeners, with input/output token tracking, per-session usage limits, timeout handling, and error handling.
- Implemented application security with Spring Security, JWT access/refresh tokens, Google OAuth2, Email OTP, TOTP-based 2FA, RBAC, password recovery, and Redis-backed token/session management with TTL expiration.
- Integrated Redis caching and **PayOS** subscription payments, including discount handling, payment links/QR codes, verified webhook signatures, and payment-status processing.
- Automated production deployment using GitHub Actions, multi-stage Docker builds, Docker Hub, Docker Compose, Nginx, HTTPS, and **AWS EC2**.

Education

Bachelor of Information Technology **Aug 2023 – Sep 2026**
CMC University *Hanoi, Vietnam*

GPA: 3.4 / 4.0
English: B1
Scholarship: 70% tuition scholarship for three academic years