# Quách Hữu Khang

## Java Backend Developer

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## PROFESSIONAL SUMMARY

A passionate Software Engineering student aiming to kickstart my career as a Java Backend Developer. Short-term, I seek to contribute to real-world projects, mastering professional workflows and Spring Framework. Long-term, I aspire to specialize in scalable microservices, delivering sustainable value to businesses.

## SKILLS

**Programming Languages:** Java (2 years), C++,JavaScript, HTML/CSS

**Frameworks & Technologies:**
- Spring Boot, Spring Security (OAuth2, JWT), Spring Data JPA, Spring AI (GPT-3.5 integration), Spring @Async, Spring Email, Spring @Schedule, Spring Validation
- Spring Cloud: API Gateway, Service Discovery (Eureka), Config Server, Load Balancing,  FeignClient, RestTemplate, Webclient
- Spring Framework (DI/IOC)
- Microservices Architecture, Event-Driven Architecture (EDA), Saga Pattern, Domain-Driven Design (DDD)
- RESTful API, Exception Handling
- Message Queue: RabbitMQ, Spring ApplicationEventPublisher

**Databases:** SQL Server, PostgreSQL, H2, Redshift, Snowflake, DynamoDB, JPA/Hibernate

**Tools:**
- Development : Git/GitHub, Maven, Trello, Jira
- Code Quality: Checkstyle
- Testing: Postman, JUnit , Selenium, k6 (load testing)
- Deployment: Vercel, Ngrok, Render, Neon, Docker, AWS (Hands-on with S3, Glue for ETL pipelines), Azure Cloud (Basic)

**Additional Skills:**
- Soft Skills: Fast learner, teamwork, problem-solving, adaptability, communication
- Languages: Vietnamese (Native), English (Fluent in technical reading and research, conversational, completed short-term exchange at TAR-UMT Malaysia)

## EXPERIENCE

**FPT Software**                                                                                             9/5/2025  -  Now

Intern Tester

- Performed testing for an aviation data project for a Japanese client, executing test cases provided by the mentor.
- Conducted system and integration testing to ensure data integrity and application reliability.
- Collaborated with developers to identify, report, and resolve issues, enhancing understanding of software development lifecycles.
- Utilized SQL for database testing and operated within an AWS Cloud environment.

## EDUCATION & CERTIFICATIONS

**FPT University**                                                                                  2022  -  2026 (Expected)

Bachelor of Software Engineering - GPA: 3.0/4.0

Notable Courses:
- Data Structures and Algorithms (9.1/10)
- Software Development Project (8.6/10)

Certifications:

- Software Development (Coursera)
- Java Full Stack Developer (Coursera)
- Java Testing (Coursera)
- Azure Cloud Fundamentals (FPT Software Academy)

## PROJECT

### Online Food Ordering App
05-2025 - 07-2025

Developer (Backend), Contributor to Architecture
Team Size: 6 | Duration: 2 months | Agile

Description: A microservices-based platform for online food ordering, featuring order processing with Saga pattern, payment integration, inventory management, and real-time notifications.
Technologies: Java, Spring Boot, .NET, Next.js, Tailwind CSS, PostgreSQL, MSSQL, H2, RabbitMQ (CloudAMQP), Eureka, Docker, Swagger, JWT...
GitHub: taste-flow

- Designed architecture and Saga flow for Order Service, ensuring robust handling of stock conflicts and payment failures with compensating transactions.
- Led deployment of 8+ microservices on Render using Docker, integrating cloud-based PostgreSQL, MSSQL, and RabbitMQ on CloudAMQP for scalability and event-driven communication.
- Allocated services across taste-flow-be (APIgateway, EurekaServer, InventoryService, MenuService, NotificationService, OrderService, PaymentService, UserService) and taste-flow-fe (Next.js frontend), optimizing resource distribution and inter-service communication.

### Child Vaccine Schedule Tracking System
02-2025 - 04-2025

Backend Lead & Developer, UI Designer (Frontend)
Team Size: 5 | Duration: 10 weeks | Waterfall

Description: A system for managing vaccination schedules with flexible booking (individual/group), automatic schedule adjustments, and email notifications (reminders, delays, follow-ups) for multi-dose vaccines.
Technologies: Java, Spring Boot, Spring Security, Spring AI, SQL Server, ReactJS, Maven,...
GitHub: Child-Vaccine-Schedule-Tracking-System

- Developed 15+ RESTful APIs, optimizing email delivery with Spring @Async to reduce response time.
- Integrated Spring Security (OAuth2) for authentication, payment management, and cancellation tracking.
- Implemented Spring AI (GPT-3.5) to create a chatbot for customer support.
- Designed UI for scheduling and tracking interfaces.
- Trained team members on Spring Boot and ensured backend development progress.

### Smart Wallet
24-03-2025 - 26-03-2025

Backend Lead & Developer, UI Designer (Frontend)
Team Size: 3

Description: A financial management system for categorizing income/expenses, creating budgets, visualizing data, and sending notifications when exceeding budgets.
Technologies: Java, Spring Boot, Spring Security, Spring Email, SQL Server, ReactJS, Maven
GitHub: SmartWalletProject

- Developed 5+ RESTful APIs, implementing global exception handling with @ControllerAdvice to ensure robust responses for the frontend.
- Integrated Spring Email to send password reset emails and budget notifications, completing the project in 3 days.
- Designed UI for the dashboard interface.