

Contact

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(LinkedIn)

Top Skills

Vue.js
gRPC
Redis

Bảo Nguyên Nguyễn Võ

Java Software Developer at MoMo (M_Service)
Ho Chi Minh City, Vietnam

Summary

- Passionate and results-oriented Backend Engineer with over 3 years of experience in designing and building scalable, high-performance microservices. I thrive on solving complex problems, optimizing system efficiency, and creating secure, seamless user experiences.
- With expertise in Java, Vert.x, and event-driven architecture, I've built robust backend systems that power authentication, payment security, and enable efficient-service communication.
- I believe in humility, collaboration, curiosity, a passion for innovation, and continuous learning to improve myself.

Experience

MoMo (M_Service)

3 years 4 months

Java Software Engineer

June 2022 - Present (2 years 10 months)

District 7, Ho Chi Minh City, Vietnam

Key Projects & Responsibilities

- Captcha System: Developed a puzzle-based Captcha with dynamic image generation, validation, and rate-limiting to mitigate bot attacks and data crawling.
- OTP System: Built an OTP authentication service supporting voice and SMS OTP, with optimized resend logic and dynamic OTP type switching.
- Smart OTP System: Implemented a secure Smart OTP solution, ensuring client-server synchronization for authentication in payment transactions efficiently, and reducing cost.
- Complex Password Management: Developed services for login, registration, password changes, and a temporary password system via Customer Support.
- Reset PIN/Password System: Improved multi-step authentication for secure PIN/password recovery while enhancing user experience and fraud prevention.
- Dynamic Rules System: Optimized a configurable rule engine for real-time payment validation and automated configuration updates.

- Event Routing System: Contributed to a filter-based event routing mechanism with an automated configuration management tool for real-time updates.

Technology Stack:

- Architecture: Microservices
- Programming Language: Java
- Framework: Vert.x
- Databases: Oracle, MySQL, Redis, Cassandra
- Messaging & Communication: Kafka, RabbitMQ, gRPC
- Infrastructure & Deployment: Kubernetes, ArgoCD

Internship Trainee

December 2021 - May 2022 (6 months)

District 7, Ho Chi Minh City, Vietnam

- Assisted in developing a system management website enabling dynamic configuration of service properties.
- Assisted in building an automatic reconnection mechanism to Redis, minimizing service downtime due to connection loss.
- Migrated services from an outdated library framework to a new one, improving maintainability and performance.

Education

FPT University

Bachelor's degree, Computer Software Engineering · (September 2019 - October 2023)