Mohammad Zbib

BACKEND DEVELOPER

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SKILLS

Backend: Java, Spring Boot, Spring Cloud, Microservices, RESTful API, RabbitMQ, Junit5, Mockito
Database: PostgreSQL, MongoDB, Redis
DevOps: Docker, Docker Compose, Github Actions
Monitoring: Zipkin, Grafana, Prometheus

PROJECTS

Delivery Management System
Startup Project

- Built RESTful APIs for order tracking, delivery assignment, and real-time status updates
- Developed performance metrics dashboard tracking delivery times, success rates, and ratings
- Implemented automated shift scheduling and assignment system based on driver availability
- Utilized agile methodologies using Jira for sprint management, contributing to continuous delivery pipeline and maintaining consistent sprint velocity
- Built an auth system using OWASP best practices with JWT and role-based access
- Achieved 90% test coverage using JUnit5 and Mockito, reducing production bugs by 75%
- Designed system documentation using C4 model architecture diagrams and OpenAPI 3.0, reducing onboarding time by 60% resulting in faster feature implementation

Event Management System
github.com/mhmd-zbib/event-management-system

- Architected multi-tenant booking platform serving venue owners, service providers, event organizers, and end users
- Containerized microservices using Docker with observability stack (Prometheus, Zipkin, Grafana)
- Designed asynchronous notification queue system using RabbitMQ
- Created event planning workflow handling venue selection, service coordination, and payment processing
- Built a comprehensive logging system using Log4j2 and Spring AOP, tracking method execution and system operations, reducing debugging time by 70%
- Optimized JPQL queries and implemented database indexing, reducing average query execution time by 84%
- Utilized OpenFeign for inter-service communication, Resilience4j for circuit breaker, and Spring Cloud LoadBalancer for request distribution
- Setup automated unit testing workflows with Github Actions, enforcing control on PRs
- Implemented pagination and filtering using efficient querying mechanisms for optimal data retrieval and system performance

E-commerce Microservices

- Integrated OAuth2 resource server with Keycloak for secure authentication and authorization
- Designed API Gateway using Spring Cloud Gateway, centralizing routing and security concerns
- Built service discovery mechanism using Netflix Eureka, enabling automatic service registration and dynamic routing with load balancing
- Designed a centralized error handling system across all microservices, providing consistent error responses and proper exception handling
- Developed bulk stock verification mechanisms to streamline inventory checks
- Integrated product catalog service with MongoDB, implementing efficient document storage and retrieval mechanisms

SMS Messaging

- Implemented dual-queue messaging system using RabbitMQ with real-time and scheduled delivery patterns
- Designed extensible SMS provider system using abstract factory pattern
- Utilized WebClient for external API calls on a Mock Provider Server
- Created a base interface for integrating multiple SMS providers, allowing scalability through Open-Closed Principle
- Created abstract producer template reducing code duplication by 60% and decreasing development time for new features by 40%
- Developed batch processing system handling 5 messages/10s with automatic retry

EXPERIENCE

NextJs Developer

Second Brain Labs | feb 2024 – may 2024

- Architected modern web application using Next.js 14 with TypeScript and Server Components
- Developed comprehensive dashboard with analytics and data visualization
- Built responsive UI using Tailwind CSS and Shadcn UI, achieving 95% mobile responsiveness
- Implemented scalable feature based architecture with reusable UI component library

React Native Developer

Zitlac Agency | nov 2023 – feb 2024

- Developed a comprehensive offline first mobile application for managing professional contacts, reminders, and analytics using React Native and Expo framework
- Created custom hooks for logic reusability with search and filtering capabilities
- Built customizable contact profiles with social media integration and tagging functionality
- Implemented SQLite database for offline data management
- Created efficient data management system using TanStack Query for optimized data fetching

EDUCATION

Bachelor - Computer Science

2022 - 2025 | Lebanese International University