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Career Summary

Michael is a highly skilled Back end Developer with extensive experience in modern web development frameworks, including Spring Boot (Java), Spring cloud and knowledge with Microservices architecture. Passionate for complex things and challenges. Familiar with Agile methodologies and collaborative workflows.

Summary of Qualifications

Proficient In:

Git | MySQL | PostgreSQL | Microservices architecture | Resilience4j | Jacoco | REST API | SQL | API Gateway | Config Server | Eureka (Service Discovery) | Unit Testing | JUnit | Mockito | SpringBoot | Collections | Java 8, 11, 17 | OOP | Basic Design patterns (DTO, DAO, Builder, Singleton)

Languages

- Spanish (native)
- English (B2, intermediate)

Career History

Globant, Bogotá, Colombia
Full Stack Developer

Jul. 2024 – Sept. 2025

Implemented internationalized routing using Next.js App Router to deliver localized experiences across multiple languages, ensuring seamless navigation across different regions. To support a modern and responsive user interface, developed modular and reusable components using React and styled them efficiently with Tailwind CSS. For managing multilingual content, integrated react-i18next, enabling dynamic language switching and maintaining consistency between server and client rendering. Additionally, combined a backend microservices architecture with java using Eureka, config server and API Gateway to create a scalable and efficient back end to enhance the way of managing requests and communication between business domains.

Tools: Next.js (App Router), React, Tailwind CSS, React-i18next, NextINTL, Consume REST APIs, microservices, Eureka, config server, API Gateway.

Developed scalable web applications using Next.js and Spring Boot to deliver digital solutions for SENA facilities, collaborating with cross-functional teams to enhance system architecture, implement SOLID principles, and enforce Clean Code standards—resulting in more efficient and maintainable codebases. Led security enhancements for "Hermes" (one of the organization's flagship projects) by integrating Spring Security and designing a JWT-based authentication system, ensuring robust protection for API endpoints. Optimized development workflows by promoting best practices, improving scalability, and maintaining high code quality across multiple projects.

Tools: Next.js (app router and pages router), TypeScript, JavaScript, Java, SpringBoot, REST API's, Layered architecture, DTO, JWT, Hibernate, JPA, PostgreSQL, Tailwind CSS.

Projects

Hotel booking management

Stack: Java, SpringBoot, Spring Cloud, Config Server, Eureka Service discovery, API Gateway, Microservices architecture, FeignClient, Resilience4j, Circuit Breaker, Exception handling, JUnit, Mockito, Postman, Java 8, 17.

Designed and developed a microservices-based backend application for hotel booking management to enhance my expertise in Java and the Spring ecosystem. The architecture consists of six microservices: three for infrastructure configuration (API Gateway, Config Server, and Service Discovery with Eureka) and three for core business logic ("hosts", "bookings", and "rooms"). Implemented unit testing with JUnit and Mockito, and integrated Resilience4j to improve fault tolerance and reliability in inter-service communication..

- You can find the code of the project in the following repository:
 - https://github.com/ZhuoKross/Hotel_booking_management.git

Omnilearn

Stack: HTML, Next.js, App router, React, Express.js, tailwindCSS, Redux, Redux toolkit, JavaScript, TypeScript, DeepL API, Anki connect API, decoupled architecture, Postman.

Developed a web application with a decoupled architecture aimed at helping self-taught learners optimize the time they invest in their learning process. The system includes two main modules:

Content Extraction Module: A web scraper that processes a user-provided URL, extracts content blocks based on the page structure, and displays them in a separate view where users can select relevant content and generate Anki flashcards.

Language Learning Module: Designed for polyglot users, this module helps expand vocabulary by retrieving word definitions from an external API and allowing users to create flashcards for selected words.

- You can find the code of the project in the following repositories:
 - Front-end: https://github.com/ZhuoKross/omnilearn_front.git
 - Back-end: https://github.com/ZhuoKross/omnilearn_back.git

Education

Tecnólogo en Análisis y Desarrollo de Software. Bogotá, Colombia

Jan. 2024 – Sept. 2025

Técnico en Desarrollo de Software. Bogotá, Colombia

Jan. 2022 – Dec. 2023