

Carlos Rodriguez

Backend Developer | Java Spring Boot · Node.js · NestJS · AWS

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PROFESSIONAL PROFILE

Backend Developer in training with hands-on experience in **Java (Spring Boot)**, **Node.js** and **NestJS**, with real-world projects in microservices architecture, REST APIs, and deployment on **AWS**. Looking for a position to apply my skills and keep growing as a developer.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript

Frameworks: Spring Boot, Spring Cloud, NestJS, Express.js

Databases: PostgreSQL, MySQL, SQL

Cloud & DevOps: AWS (EC2, S3, RDS), Docker, GitHub Actions, CI/CD

APIs & Security: REST API, JWT, OAuth2, Third-party API integration

Tools: Git, GitHub, Postman, Maven, npm

PROJECTS

Barry — Personal Finance Management API

Node.js · Express.js · JWT · OAuth2 · OpenAI API · AWS (EC2, RDS) | github.com/carlosrodriguez/barry

- Built a RESTful API for personal finance management using Node.js and Express.js.
- Implemented secure authentication with JWT and OAuth2.
- Deployed the application on AWS using EC2 and RDS.

TeamSync — Business Management Platform (Microservices)

Spring Boot · Spring Cloud · JWT | github.com/carlosrodriguez/teamsync

- Designed and developed a platform with 7 independent microservices in Spring Boot.
- Implemented JWT authentication with differentiated roles: Employee, HR, and Admin.
- Applied microservices patterns: API Gateway, Service Registry, and centralized configuration.

DocAudit — AI-Powered Document Analysis

NestJS · Python · XGBoost · Random Forest · Docker · GitHub Actions · AWS EC2 | github.com/carlosrodriguez/docaudit

- Built a REST API in NestJS for automated analysis of commercial and legal documents.
- Integrated Machine Learning models (XGBoost, Random Forest) exposed via a Python API.
- Set up a CI/CD pipeline with GitHub Actions and Docker for automated deployment on EC2.

EDUCATION & CERTIFICATIONS

B.S. in Software Development Engineering

Tecmilenio · Monterrey, México · 2023 – 2027 (7th Semester, In Progress)

AWS Academy Cloud Operations — Amazon Web Services · 2025

Web Development Fundamentals — IBM SkillsBuild · 2025

LANGUAGES

Spanish: Native | **English:** B2 (Upper-Intermediate)