

# CARLOS CASTAÑEDA

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## Senior Java Software Engineer

Senior Java Software Engineer with over 9 years of hands-on experience in designing, developing, and deploying scalable and secure web applications. Known for my expertise in Java, Spring Boot, and cloud services (AWS, GCP), as well as my ability to lead cross-functional teams and drive complex projects to successful completion. Proficient in developing robust applications, designing microservices architectures, and optimizing cloud deployments through containerization and serverless computing, resulting in enhanced performance and reduced operational costs.

## Professional Experience

IBM

Oct 2021 - Present

Java and Web Technologies

- Developed and maintained microservices for USAA, focusing on risk validation and detection, achieving a 15% reduction in processing time.
- Engineered scalable microservices and APIs using Spring Boot across Java versions 8 through 21, optimizing performance with reactive programming (WebFlux).
- Integrated Kafka for ETL processes within an event-driven architecture, improving data handling and processing efficiency.
- Deployed applications using Helm on OpenShift, streamlining CI/CD and enhancing pod performance.
- Conducted unit and deployment testing, maintaining high code quality and managing GitLab branches.

EDICOM

Jun 2016 - Oct 2021

Software Engineer Development (I+D+S)

- Migrated a monolithic system to microservices using Spring Boot, enhancing scalability and maintainability.
- Implemented Elasticsearch for improved data indexing and search, optimizing system performance.
- Utilized SOA services and WebSockets for EDI communication, ensuring efficient data exchange.
- Led the migration to Angular, enhancing user interface and experience.
- Developed secure APIs for electronic invoicing, implementing encryption, decryption, and digital signatures. [View Project Details](#).

## Education

Instituto Politécnico Nacional, Licentiate degree in Computer Science, Jan 2011 - Jan 2015

## Core Competencies

**Programming Languages**    Java, TypeScript, Go  
**API Development**    RESTful, WebSocket, GraphQL  
**Event-Driven Communication**    Kafka, Avro  
**Frameworks**    Spring Boot, Angular, React, Thymeleaf  
**Databases**    Oracle, DB2, MySQL, PostgreSQL, MongoDB, Cassandra  
**Infrastructure**    Dockers, Kubernetes, Helm, OpenShift  
**Cloud**    AWS, GCP, Terraform  
**Testing Frameworks**    JUnit, Mockito, Selenium  
**Version Control & Tools**    Git, GitHub, GitLab, Jira  
**Build Tools**    Maven, Gradle

## Certifications

[Building Scalable Java Microservices with Spring Boot and Spring Cloud](#), Google Cloud Skills Boost

Jul 2024

[Developing Front-End Apps with React](#), IBM

Sep 2024