CARLOS CASTANEDA

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Senior Java Software Engineer

Senior Java Software Engineer with 10+ years of experience building scalable, microservices-based, and cloud-native applications, primarily across financial services, insurance, and healthcare domains. Specialized in **Java, Spring Boot, Kubernetes, and AWS/GCP** with strong expertise in designing **RESTful APIs for synchronous communication** and **Kafka-based systems for asynchronous messaging**. Proficient in **API security (JWT, OAuth)** and **CI/CD automation**. Skilled in upgrading and modernizing backend services for improved performance and security.

While my core focus is backend engineering, I also bring experience in **frontend development** using **TypeScript, Angular, and React** to deliver end-to-end solutions.

Work Authorization: U.S. Permanent Resident (**Green Card Holder**) — authorized to work in the U.S. without sponsorship.

Professional Experience

IBM - USAA   Oct 2021 - Present
Java and Web Technologies, Mexico - USA
- Developed **microservices for high-traffic applications** deployed on **Kubernetes** using **Spring Boot** and **OpenShift**.
- Integrated **Kafka for ETL processes**, improving **data handling and event-driven workflows**.
- Designed and optimized **backend APIs**, reducing response times by **25%** using **Redis caching**.
- *Proactively lead **Java version upgrades** across multiple projects to align with LTS standards (**Java 11/17/21+**), ensuring improved runtime performance and compliance with security best practices. **Utilize tools like Twistlock to detect and resolve vulnerabilities during the CI/CD lifecycle.***
- Implemented **Spring WebFlux** for high-throughput **stream processing**.
- Used **Helm for Kubernetes deployments**, ensuring **efficient resource allocation and scaling**.
- **Key Projects:**
  - **Policy Event Listener:** Centralized **data processing** for insurance APIs, improving efficiency.
  - **Reconciliation Workflow:** Designed **stream processing** for **real-time data reconciliation**.
  - **KYC "Day One Letter":** Implemented a **full-stack solution** for **user identity verification** using **Spring Boot & React**.

EDICOM   Jun 2016 - Oct 2021
Software Engineer Development (I+D+S), Mexico
- Led the **migration of a monolithic architecture to microservices** using **Spring Boot**.
- Implemented **secure APIs with cryptographic methods**, ensuring **compliance with SAT regulations**
- Developed and maintained **SOAP-based services using JAX-RS** for **SaaS applications**.
- Managed and optimized **electronic invoicing and payroll systems**, ensuring **high availability and compliance**.
- **Key Projects:**
  - **Electronic Invoicing System:** Designed and implemented a **highly scalable** electronic invoicing solution.
  - **Payroll Processing Platform:** Developed a **secure API-based** payroll system, ensuring **regulatory compliance**.
  - **Microservices Migration:** Led the **transition from monolith to microservices**, improving **system performance**.

Earlier Experience   May 2015 - Jun 2018
Mexico, Spain
- **INTERALIA (Coca-Cola) | May 2015 - June 2016**
  Developed secure APIs and interactive components using **Spring, Hibernate, and jQuery**.
- **BASSOL (Banamex Citi) | June 2016 - Dec 2017**
  • Created **PAY/COB modules** using **JSP, Spring, and Hibernate**, reducing payment processing time.
  • Designed secure authentication flows for financial applications, **improving compliance with banking regulations**.
- **ISBAN (Santander) | Jan 2018 - June 2018**
  • Migrated BancaSphere platform components and implemented backend solutions using **WebSphere and JDBC**.

Education

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

Core Competencies

Programming Languages   Java (8–21), TypeScript, Kotlin
API Development   RESTful, WebSocket, graphQL, JWT
Messaging & Integration   Kafka, Queues
Frameworks   Spring Boot, Spring Cloud, Spring Batch, Hibernate, Angular, React
Databases   Oracle, DB2, MySQL, PostgreSQL, MongoDB, Cassandra, Redis
Infrastructure & CI/CD   Docker, Kubernetes, Jenkins, OpenShift, CI/CD pipelines
Cloud   AWS (EC2, Lambda, S3, IAM, DynamoDB), GCP (App Engine, Pub/Sub, Cloud Run)
Testing Frameworks   JUnit, Mockito, Selenium, Testcontainers
Monitoring & Observability   ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus
Version Control & Tools   Git, GitHub, GitLab, Jira
Build Tools   Maven, Gradle
Application Servers   WebLogic, WebSphere, JBoss/WildFly
Languages   English, Spanish