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## **JORGE CARO – SOFTWARE ENGINEER**

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### **SUMMARY**

- Software Engineer with over 15 years in designing, developing and leading software projects
- Deep knowledge and hands-on experience in the field of financial systems, modeling and building systems with transactional flows, integrating services of different components, stream and real time applications, data processing systems.
- Practical experience building and supporting microservices and integration with ws services as well as good knowledge about underlying infrastructure like kubernetes and AWS
- Strong skills in leading and guiding the development under schemes of teamwork that leads to the success of the projects and client satisfaction
- Experienced in modeling business projects with Agile methodologies and quality standards
- Practical experience in construction of analytics projects, such as the construction of data warehouses and the implementation of dashboards for BI
- Initiative, proactive team player with good investigation skills

### **SKILLS**

#### **Academic Disciplines**

- **Humanities:** English C1
- **Applied Sciences:** Design patterns, Microservice Architecture Pattern, Engineering, REST, Software Architectural Styles, Event driven systems.

#### **Engineering Practices**

- **DB Development General**
- **Coding skills in Java Core Python and Javascript**
- **Cloud:** Cloud Computing Hand-on experience and Best Practices
- **Advanced Technology:** Java Troubleshooting, Java Security, Java Microservice Infrastructure, Core Java Development, Java Caching, Cloud Fundamentals, Java NoSQL, Software Engineering Practices, Java Web Development, Java Containerization & Orchestration, Java Development, Java Messaging, Code Standards, Java Persistence, AT/Agile, Java Version Control, Java Cloud, Java EE Web Services Development, Code Review, Python intermediate, Software Engineering Knowledge & Experience, Java SQL, Reference Architectures, Software Development

Methodology, Java Bootstrapping, Java Dependency Injection, Java Streaming, Java Observability, Software Design, Software Engineering Processes, Java EE Business Components Development, Continuous Delivery.

## Leadership & Soft Skills

- **Leadership:** Developing Others
- **Communication:** Communication
- **Teamwork and Collaboration:** Teamwork and Collaboration
- **Ownership:** Ownership, Accountability
- **Consultancy:** Client Relationship Management

## Managerial

- **General Management:** Agile, Scrum

## Technologies

- **Data:** Databases, Apache Kafka, Amazon RDS, Microsoft SQL Server, DynamoDB, Postgres, Oracle.
- **Framework:** JPA - Hibernate, Spring Batch, Spring Security, AWS Cloud, GCP, Spring Boot, Spring Core, Helm, Terraform.
- **Other:** AWS.Compute, Apache Kafka Streaming, Payment Technologies and Schemas, Testing Tools, AWS.Analytics, Spring Cloud Config, AWS IAM, AWS.Application Integration, AWS.Networking & Content Delivery, AWS Fargate, AWS.SDK, AWS.Containers, AWS Security, Identity & Compliance, Cloud Platforms, AWS.Database, AWS.Storage, AWS Cloud Development Kit, Amazon Elastic Container Registry, AWS EKS, AWS Simple Notification Service, AWS Simple Queue Service, GCP Identity and API, Grafana.
- **Solution:** Jira, GitHub
- **Computer Language:** JavaScript, Java, CSS, Java 11/17, SQL, Java 15, HTML, Python
- **Platform:** Kubernetes, Microsoft Azure, Docker, Amazon Web Services

## WORK EXPERIENCE

### Jul-2021 - Till now

Software Engineer, EPAM Systems

**Customer:** Business Information and Media

**Project:** Micro-services development, Flink Infrastructure and observability, Event platform development.

**Team Size:** Dev team 6 members, 1 tech lead

**Project Role:** Microservices / Stream Applications Software Engineer

### Tasks performed:

- Developing Service from scratch in Spring boot (event validator service, Schema dependencies, stream-publisher, event-producer)
- Developing common libraries (Rules validator service, Smity to openApi conversion and publication, Feature flag using LaunchDarkly, Kinesis consumer common configuration)
- Streaming application development in Flink, AWS Kinesis data analysis, Kinesis data streaming consumer and producer.
- Data Streaming Back-pressure performance tests
- EKS configuration and deployment
- CI/CD Jenkins - Spinnaker development
- Developing evolutive functionalities on microservices over RESTful and Spring Boot applications
- Integration with AWS services like DynamoDB, Aurora DB, S3, MSK
- Infrastructure provisioning with Terraform and Helm scripts for Kubernetes
- Developing Python scripts for test services status, and maintenance scripts
- Prepare technical documents to share knowledge
- Evaluate third-party tools and integrate it with existing ones for CI/CD, OAuth, EKS, DataDog, GCP Auth, GCP API Gateway and GCP GKE and Docker.
- API design and development of the card-balance service using Spring Flow reactive
- API performance test setup, analysis and reports.

**Environment:** MySQL, Aurora DB, DynamoDB, Redis, Jira, Jenkins, Spinnaker, Grafana, Datadog, Spring Boot, AWS, Terraform, Helm charts, Kubernetes, OCP, Java, Python, Bash, Java 11

### Aug-2017 - Jun-2021

Information Technology Solutions Specialist, COMPENSAR - FINANCIAMIENTO Y ALIANZAS

**Project:** Transaction Web Portal to allow clients to request credits on-line Evaluate and integrate a new Core Banking system with internal components

**Team Size:** Dev: 6, QA: 2, Architect: 1

**Project Role:** Middle Architect

### Tasks performed:

- Modeled the architecture and designed the integration layer to be built on the integration bus and guided the construction of the Transactional Web Portal as a consumer
- Developed RESTful web services for get offers of credit

- Prepared guide to team members to understand the business requirements exposed by our product owner
- Guided the implementation for Digital Credit Project that allows clients to request credits online by web pages
- Designed the integration layer and developed web services for integrate the new Credit Core
- Datalake development in SQL integrating different source of data through ETLs using SQL Integration system.
- Performance Test execution and evaluation using Jmeter and Karate.
- Collaborate in front-end development of credits request process in React framework.

**Environment:** Sql Server, Azure DevOps, Postman, Cloud9, Visual Studio Code, REST, swagger, Java, React, AWS, OAuth2, Jmeter, ReactJs

### **Oct-2015 - Aug-2017**

Tech Lead, Tecnocom

**Customer:** ATH, Grupo Banca Aval

**Project:** Technology Renovation for Compensation and Conciliation Software

**Team Size:** Devs: 9, QA: 2, Architect: 1

**Project Role:** Technical Lead

**Tasks performed:**

- Technically led the development of the new compensation and conciliation software whose objective was to update the technologies to improve the maintainability and efficiency of the system that handles the transactional information of Grupo Aval
- Developed web services for create claims on Compensation Software
- Developed Reports in SQL Server and Jasper Report
- Integrate a new front-end html template

**Environment:** Sql Server, Oracle, Jira, Jasper Report, Java JSF, WebLogic, HTML -CSS, Java EE, Java-WS

### **Apr-2012 - Oct-2015**

Senior Software Engineer, Tecnocom

**Customer:** ATH Grupo Aval Banking

**Project:** Transactional Sign for second factor of authentication, Upgrade DataBase And WebServer for String Authentication System

**Team Size:** Dev: 10, QA: 3

**Project Role:** Senior Software Engineer

**Tasks performed:**

- Designed, developed and implemented the applications for transactional sign for second factor of authentication based on analyzed requirements and understanding of industry technical standards
- Developed and implemented the web services for activate and validate authentication token for the Grupo Aval
- Upgraded the Database and Web Application server for the Strong Authentication System for the Grupo Aval
- Updated the personal banking system for consume the new services core

**Environment:** Sql Server, WebLogic, Java 7, JSF, JSP, JEE, Java Web Services

**May-2009 - Apr-2012**

Senior Developer, Pay U

**Project:** New International Transactional System

**Team Size:** Dev: 5, QA: 2, Tech Lead: 1

**Project Role:** Senior Developer

**Tasks performed:**

- Developed the web site for the new version International transact system using web frameworks
- Collaborated in construction of core payment processing system whose main architecture was based on events
- Designed and developed the authorization and authentication for the administration web site using Spring security framework
- Developed the online pay system for vehicles credits of Occidente Bank

**Environment:** Postgress, Jira, Java 7, Gigaspace (Event Driver server), REST, JSF, Spring Security, Spring web, Spring Batch, Angular.

**Jan-2008 - Apr-2008**

Software Developer, Pay U

**Customer:** Pay U

**Project:** Transactional System Maintenance Venture System - For register and manage projects to participate in a contest

**Team Size:** Dev: 4, QA: 1, Tech Lead

**Project Role:** Software Developer

**Tasks performed:**

- Wrote quality codes to program web application
- Build the repository layer for venture system
- Build some front end modules inhtml and css

**Environment:** PostgreSQL, Jira, Maven, WebLogic, JEE, JPA, Hibernate, RestFull, JSF.

### **Oct-2007 - Feb-2008**

Web Developer, Millenium Phone Center

**Customer:** Millenium Phone Center

**Project:** Reports module for in and out call

**Team Size:** Dev 4 team members

**Project Role:** Web Developer

**Tasks performed:**

- Maintained existing applications
- designed and delivered new modules for reports
- Build optimize sql queries

**Environment:** Postgresql, Filezilla, SSH, PHP, AJAX, Javascript