CARLOS JOSÉ REQUENA JIMÉNEZ

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SUMMARY

Strategic and hands-on Senior Solutions Architect with over 15 years of experience designing and leading the delivery of scalable, distributed, and event-driven systems in cloud environments (AWS). Specialized in architecting microservices, real-time integration solutions, and high-availability systems for global enterprise domains such as Offer Management, Sourcing, and Master Data. Proven ability to translate complex business challenges into pragmatic and resilient technical architectures. Experienced in mentoring engineering teams, defining architectural standards, and driving cloud modernization initiatives. Passionate about leveraging emerging technologies like Blockchain and AI to shape the future of software architecture.

PROFESSIONAL EXPERIENCE

Solutions Architect, TUI   **01-2017 - Present**

As Solution Architect, I am responsible for the reference architecture and reference implementation needed to sustain the business. Define and evolve a go-forward architecture, software development standards, security standards and process improvement efforts, with focus on those that involve new and innovative technologies. I lead the evolution of enterprise and domain-level architectures, ensuring alignment with business objectives, scalability, and performance goals.

- ✓ **Led the architecture and technical direction of a multi-regional**, distributed sourcing platform, resulting in a 40% improvement in system scalability and uptime exceeding 99.99%.
- ✓ **Migrated monolithic legacy systems to AWS microservices**, achieving a 60% reduction in deployment time and increasing feature delivery velocity.
- ✓ **Implemented event-driven patterns (Kafka, SNS/SQS)** that decoupled critical services and improved system resiliency during peak transaction volumes
- ✓ **Established architecture review processes and design standards**, ensuring alignment across global development teams and improving code quality and reusability.
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- ✓ **Collaborated with cross-functional teams including Product**, Security, and DevOps to drive business-aligned architectural decisions and system optimizations.
- ✓ **Designed and deployed secure**, high-performance APIs, enabling seamless integration with internal and external partners and reducing integration onboarding time by 35%.
- ✓ **Covered Enterprise Architecture functions**, maintaining system and application architecture documentation in LeanIX, improving transparency and governance across IT landscapes.
- ✓ **Aligned architectural roadmaps with enterprise strategy**, working closely with business stakeholders to ensure long-term scalability and compliance.
- ✓ **Established architecture review processes and design standards**, fostering consistency across global teams and enhancing reusability
- ✓ **Mentored and coached developers and junior architects**, building a knowledge-sharing culture and supporting professional development within the engineering organization.
- ✓ **Specify and design solutions**, that add value and efficiency to business areas and systems.
- ✓ Evaluate and undertake impact analyses on major design options and assess associated risks.

- ✓ Collaborate closely with technology system and team leads in determining optimal solutions to product goals and aligning system/architecture roadmaps to product plans.
- ✓ Actively engage with engineering teams in the development and implementation of solutions designed, providing guidance on solution approach, technical best practices, and business priorities.
- ✓ Support development of cross-functional business processes; identify alternative solutions, assess feasibility, and recommend new approaches via technology enablement.
- ✓ Stay informed on technology trends and product roadmaps to make strategic solution architecture recommendations.
- ✓ Lead the migration to micro-services architecture.
- ✓ Responsible for overall execution architecture & design of the API approach within Digital platforms group.
- ✓ Research the existing application and recommend the granularity of APIs to ensure they meet the business needs but are not coupled to channels.
- ✓ Direct experience with product development in an enterprise setting, leveraging modern technology stacks and cloud-based systems such as AWS
- ✓ Strong knowledge of various integration approaches such as micro-services, messaging, queuing, API patterns, etc.
- ✓ Implementation of DevOps strategy and DevOps tools (Gitlab CI, Docker, Ansible, Terraform, ECS, ECR, SonarQube, Maven)

Application Architect, Hotelbeds   09-2015-01-2017

- ✓ Developed and maintained core services in the Distribution and Master Data domains, supporting millions of daily data transactions.
- ✓ Refactored legacy Java-based components into modular services using Spring Boot and Docker, improving maintainability and deployment agility.
- ✓ Built internal libraries and frameworks to accelerate API development and standardize error handling, reducing defect rates in new features.
- ✓ Worked closely with data and content teams to integrate catalog and sourcing logic into external partner systems via secure REST APIs and messaging patterns
- ✓ Conducted performance tuning and memory profiling across services, achieving up to 30% faster response times in high-load environments.
- ✓ Design the interaction between systems, restrictions on the use of platforms and tools.
- ✓ Set global standards shared between supervised systems.
- ✓ Ensure that all solutions, usually composed of many infrastructure elements and software, works well with each other.
- ✓ Diagnose the whole system, understand all interactions between components on a given level of abstraction, as well as to define limitations and requirements for source code.

Application Architect, Onwhyon, Madrid   11-2014 - 06-2015

Led the architecture and development of a self-assessment platform that analyzes the **digital maturity of websites** across eight behavioral dimensions: SEO, Content Usability, Digital Marketing, Social Media, Web Analytics, E-Commerce, and Mobile Readiness. The system generates comprehensive reports with actionable insights to improve digital presence.

Phase 1 – Web Crawling & Analysis:
Integrated the Crawler4j API to extract and analyze website structure and metadata including:
- ✓ Internal/external links, content depth, server location, load speed
- ✓ W3C validation, robots.txt, sitemaps, analytics tags (Google Analytics, AdWords)
- ✓ SEO metrics (backlinks, headers, keyword density, HTML/CSS structure)

Phase 2 – External API Integration & Parallel Processing:
Developed integrations with third-party APIs including Facebook, Twitter, YouTube, Google+, Klout, Page Speed, SEMrush, and W3C.

Phase 3 – User Interface & Reporting:
Delivered a dynamic user-facing web application where users could input URLs and receive detailed digitalization reports, including graded metrics per behavior area.

Software Consultant, Trentiserv, Madrid   04-2010 - 11-2014
Ensure the viability of systems according to business characteristics of customers, update knowledge about new technologies and products, get information to design and improve software applications, analysis, documentation, business requirements, functional design and organic design, estimations reviews, review of new implementation techniques, etc.

SEPA Project: Design, implementation and development of the architecture and business components for a project based on SEPA (Single Euro Payments Area). Definition of functional requirements for the processes of direct debit, mandates, receipts and transfers.

Bank of Santander: Development of applications that require bulk processing to perform business operations in mission critical environments, electronics markets, etc. These business operations include automated, complex processing of large volumes of information processed without user interaction, periodic applications of complex business rules processed repetitively across very large data sets, integration of information that is received from internal and external systems that typically requires formatting, validation and processing in a transactional manner into the system of record.   Design of a web application to apply business rules and financial calculations over insurance process and leasing process. Estimating of costs, insurances, R.O.I, etc. Technologies (Spring core 3.0, Spring batch, Spring MVC, JSF 2.0, Python, Jasper Report, Oracle BBDD, MyBatis, JPA 2.0, Maven 3.0).

LeasePlan: Web application for analysis of profitability studies, this application run over an intranet into the company, its principal business rule is to do several financial calculations as costs, insurances, profitability, etc. This application was developed using Spring framework, JSF2, Prime-faces 3, Jasper Report and Maven 3.

Software Developer, Virtual Desk, Madrid   09-2009 - 04-2010
Projects design, transactions technical design and generals task, prototypes design and assembly testing, evaluation and control of unit testing, technical solution architecture, development methodologies. Distributed architecture solutions and development of components of highly scalable applications. Lead architecture and design discussions, technology selection, and perform code reviews. Experience with Agile methodologies and practices. Experience in writing business and technically oriented documents. Technologies (ZKOSS RIA Framework, Spring Framework 2.5.6, Hibernate with JPA, HQL, Oracle Database 10g, Maven 2, SVN, Source Forge, Spring Web Flow).

Software Developer, Everis Spain, Madrid   01-2009 - 09-2009
Comprehensive infrastructure support in developing Java applications, technical architecture, development methodologies, Liferay Portlets application development and SOA architecture. Technical design and transaction tasks in general, decomposition and operating chain design, prototyping and assembly testing, evaluation and control of unit testing and assembly. Data Analysis, data migrations, data modelling, data Integration, data warehousing, database design, data architecture strategy, conceptual data model and metadata repository. Technologies (Java Spring Framework 2.0, Struts 2.0, iBatis, Oracle Database 10g, AjaxTagsLibs, JSON, Dojo, Liferay Portlets).

Software Developer, OLTP Voice, Caracas   01-2008 - 01-2009
Technical analyst programmer, application development and data organisation, OOP, UML diagramming, database management and software quality techniques. Development and middleware support in Movistar post-paid transactions system, synchronous and asynchronous applications, activation and updating accounts for post-paid mobile and telephony.

Software Developer, Imolko, Caracas   01-2006 - 01-2008

Technical analyst programmer, application development and data organisation, OOP, UML diagramming, database management and software quality techniques. Development of Web components and business components for applications that interact with users over short messages system (SMS). Developing Components in programming language (Java, ASP, JScript, VBScript, C/C+ +), Databases SQL Server 2000, Oracle and SQL Anywhere, Web Services (SOA Systinet Server) technology Ajax, Java Wrapper Service, SMPP Protocol.

EDUCATION

MBA   02-2010 - 10-2011

Business European School EUDE (www.eude.es). Specialisations in accounting, business strategies, decision sciences, economics, entrepreneurship, finance, general management, human resources, international business, marketing, organisational behaviour, Project management, Operations management.

Electronic Engineer   03-1999 - 03-2005

Universidad Nacional Experimental Politécnica Antonio José de Sucre (UNEXPO) (http://www.unexpo.edu.ve) - Study the electromagnetic phenomena of materials for their application in the design, manufacture, analysis, operation and repair of devices and systems as a means of improving, processing and transmitting information. Analogous tasks to the Electrical Engineer, but specialised in Telecommunications, Digital Electronics, Computers, Radars, Bioelectronics, Industrial Controls, Acoustics.

COURSES AND SEMINARS

Advanced Architecting on AWS	2018 (48 hours)
AWS Cloud Practitioner Essential	2018 (7 hours)
Expert Scrum Master Certified (http://www.europeanscrum.org/)	2015 (16 hours)
Intensive English Course B2 (http://www.english-in-limerick.com)	2015 (2 weeks)
IBM WebsPhere Lombardi BPM Process Analysis Methods II IBM Training.	2010 (48 hours)
Evaluation Workshop, Everis Corporate University, Madrid.	2009 (48 hours)
IVR system Movilnet, Caracas.	2008 (48 hours)
Sun Microsystems Java (TM) Programing Language sl275.	2006 (96 hours)
Nationals Instruments, Developing Applications with LabView.	2006 (48 hours)
Unexpo, Advanced Programming Pic's microcontroller 16F877A.	2004 (48 hours)

LANGUAGES

Spanish	Native language
English	B2

TECHNICALL SKILLS

- ✓ Oriented object programming (Java, C/C++, Groovy, Grails, Python)
- ✓ Frameworks MVC (Struts2, Spring MVC, JSF, MyFaces, IceFaces)
- ✓ Frameworks ORM (Hibernate3, Ibatis, MyBatis, JDO, JPA, spring-data)
- ✓ Spring Framework, Spring Boot, Spring Cloud, Spring Batch Spring WebFlow, Spring Security, Spring Web Services
- ✓ Java enterprise applications JEE (JMS, MDB, EJB, JDBC, Servicios Web, RMI, MVC)
- ✓ Application servers (WebLogic, JBoss, WebPhere, Geronimo, Sun Glassfish, OC4J, Tomcat (Web Server)
- ✓ Agile development methodologies (Scrum, Extreme Programming), Unified Modeling Language (UML)
- ✓ Markup Languages (XML, XSL, DTS, XHTML, HTML, VXML, JAXB, JAX, XPATH)
- ✓ Scripting Languages (JAVASCRIPT, JQUERY, EXTJS, JSON, DOJO, AJAX, TAGSLIBS)
- ✓ Versions control (GIT, SVN, CVS)
- ✓ Apache Maven, Apache Ant
- ✓ Database (Oracle, Sybase, MySQL, PL/SQL, SQL Anywhere, SQL Server 2000, Postgres, DB2, Pro*C, OCCI.)
- ✓ SOA Architecture (Web Services, RMI).
- ✓ Microservice architecture.
- ✓ Event driven architecture.
- ✓ DevOps, Dockers, Vagrant, Ansible, Terraform, Gitlab CI, Jenkins, AWS.
- ✓ AWS