

CURRICULUM VITAE  
Enrique Arizón Benito  
4x4 full stack Software Architect  
(GitHub Source:<https://github.com/earizon/CV>)

**About this document**

: This document is a printed version of the original one available at <https://earizon.github.io/CV/>. Document changes can be audited by browsing [GitHub](#).

You are invited to visit the online version to get the most up-to-date version.

NOTE: Since my native language is Spanish, it is quite possible that this CV has some English spelling mistakes or weird expressions mentally translated from my mother language.

Time ago I made my best to fix them. In 2024, with IA all around us, I will keep them to probe that the CV has not generated by any IA engine.

## CONTACT DATA

Surname	Enrique
Family Name	Arizón Benito
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## EDUCATION

1995 - Today:	Internet
1992 - 1999:	Bachelor's degree (5 years) in Physics ( <a href="#">University of Zaragoza</a> )

## Certifications

Certification	Issued by	Expiration Date
<a href="#">R3 Corda Certified Developer</a>	R3 Consortium	N/A
<a href="#">Microsoft Azure Developer Associate</a>	Microsoft	Jun 2022

## About me

**Software Architect** with wide experience managing the Software Development Life Cycle (SDLC) of embedded, front-end, middleware, back-end, distributed, decoupled, async/reactive platforms with more than 20 years of experience with different technology stacks citing **Golang**, **Java** (core, J2EE, Spring, Vert.X), **Node.JS**, **Python**(core, Django, Numpy/Pandas, Twisted), **C/C++** (gcc/gdb, Valgrind, ... ), **Embedded/Mobile** (Android, Yocto), **DevOps** (git, shell scripting, Linux tool chain, containers, ...), **web standards** (HTML/JS,PWA, OAuth2/OpenID, ...), **API design** (local and remote -RESTFull/gRPC/GraphQL), **Technical documentation** (UML, taxonomies, QA flows, CMS&static web site generation, ...), **Software Security** (OS layer, network, OWASP, cryptography) ...

For the last 7 years I've been focused in anything related to Web 3 technologies focusing on **public and permissioned Blockchain** and **Self Souvering Identity** and related use cases (**Decentralized finances, traceability, data transparency, ...**). )

## VISUAL SUMMARY COMPANY/YEAR

	YEAR 20..																							
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DARATEL																								
CC University Z.																								
FreeLance																								
W.P.R.																								
DiversiaTV																								
Viotech																								
Everis/NTT-Data																								
Accenture																								

## VISUAL SUMMARY TECHNOLOGY/YEARS OF EXPERIENCE

1 Year	2 Years	3 Years	4 Years	5+ Years
Programming&API design				
Frontend Development (JavaScript/TypeScript,Angular/Preact/QT/GTK/,...)				
Middleware/Backend Development (VertX/Spring/JEE, GoLang, Twisted/Django, ESB, ETL/ Batch, ...)				
TCP/IP (+REST, RPC, gRPC, ...)				
Java/Java EE/Spring				
Linux/UNIX (GNU utils, profiling, low-level-monitoring, ...)				
DevOps(Git,Containers,Shell script,CI-CD, ...)				
Data Architecture (SQL/NO-SQL, Graph, Time Series, ...)				
Web Tech (JS,HTML5, REST APIs/GraphQL, Cache, ...)				
Blockchain/FinTech crypto				
Micro(Decoupled) Services				
Distributed Architectures (Event-Stream/Async/Strong-Consistent/...)				
C (stdlib/glib, glibc)				
Go Lang				
Real Time app				
Embedded(uControllers,LUA,uPython,cross-compilation,...)				
Android+NDK				
C++ (< v11)				

## VISUAL SUMMARY INDUSTRY/YEARS OF EXPERIENCE

1 Year	2 Years	3+Years
IT & Telecommunications		
Consultancy Services		
Media & Entertainment		
ERP		
Telephony Applications(IVR)		
Fintech(Blockchain, Payments, HFT)		
Manufacturing		

## WORKING EXPERIENCE

Note: Technologies used are highlighted **using this format**

Date June 2023 - Today

Employer [Accenture](#)

Title Team Lead/Consultant

Duties

- Architect Lead for the development of the Spanish implementation of the European Digital Wallet.

Related

Technologies

- Cryptography standards
- (Architecture) API REST
- (Architecture) Async. API
- (Standards) OAuth/OpenID
- (Standards) OIDC4VCI/OIDC4VP
- (Dev Stack) Java 11/17, Kotlin, NodeJS
- (Dev Stack) JMS
- (Dev Stack) Shell Scripting
- (DevOps) Spring/Gradle
- (DevOps/k8s) Docker on Kubernetes&OpenShift
- (DevOps/Cloud) AWS EC2 + ALB + AIM
- (DevSecOps/Cloud) some "approach" to Service Mesh with Istio/Envoy

Date February 2022 - March 2022

Employer [Accenture](#)

Title Team Lead/Consultant

Duties

- Architecture support for the development of an Cross Bording RTGS system

Related

Technologies

- (Blockchain): Ethereum, ERC-20 tokens (backed by gold)
- (DevOps): Docker
- (Cloud): AWS ECS, AWS lambda, AWS IAM(Roles, Policies, STS,...), Terraform.

Date July 2021 - June 2023

Employer [Accenture](#)

Title Team Lead/Consultant

Duties

- Study and analysis of blockchain architectures (**Fabric, Ethereum, Corda R3**) and financial-cryptography related technologies
- Development of Accelerator Asset for (public and permissioned) Blockchain-based products
- Collaboration in pre-production Ethereum based solution for important International Bank using AWS cloud technologies

Related Technologies	<ul style="list-style-type: none"> <li>• Cloud: AWS SQS, AWS Lambdas, AWS ECS, AWS API-Gateways, AWS IAM integration</li> <li>• DevOps: Terraform</li> </ul>
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Date	July 2016 - June 2021
Employer	<a href="#">Everis</a> (an NTT Data Company)
Title	Solutions Specific Knowledge Analyst

Duties	<ul style="list-style-type: none"> <li>• Study and analysis of blockchain architectures (Bitcoin, Ripple, Ethereum, Corda R3, Lightning,... ), and financial-cryptography related technologies</li> <li>• Initial java implementation of <a href="#">CryptoConditions</a> (Crypto-Condition spec) and collaboration in the development of Interledger Protocol <a href="#">Java implementation</a> and <a href="#">PoC ledger</a></li> <li>• Development of generic Ethereum development framework for non-repudiable tracing, and probe of existence using <b>Java, Kotlin, VertX and Kafka(JSON/JSON-Schema)</b> for the FrontEnd REST API and <b>web3j</b> for the Blockchain "backend" as well as other PoC Blockchain applications for Insurance, Public Sector and finance (exchanges, auctions, ...)</li> <li>• Development of PoCs Decentralized Applications (DApps) based on <b>Angular 10</b> for the front-end ("wallet") transacting against <b>Solidity</b> smart-contracts executing on permissioned/consortium Ethereum networks.</li> <li>• Collaboration in different European Commission projects designing and developing based or related to blockchain highlighting blockchain notarization projects for <a href="#">Europass</a> including production deployments, and technical support and advise for the European Blockchain Service Architecture framework (<a href="#">EBSI</a>) in areas like functional testing and adoption of Solidity development "best-patterns".</li> <li>• Ethereum backed software for control of Real State power-supply and gas provisioning for a major international firm.</li> <li>• Study of Distributed Digital Identity solutions ("Self Souverign ID") backed by Ethereum public/consortium networks and W3C DID and W3C Verifiable Credentials (draft) standards</li> <li>• Internal introductory and advanced blockchain training to IT personnel</li> <li>• Design of the blockchain architecture (smart-contracts and middleware) and computing/deployment infrastructure for a consortium network focusing on automatic payments and billing of Electric Car stations.</li> <li>• Deployments based on <b>monolithic and micro(decoupled)</b> architectures based on different tecnologies.(JEE app servers, tomcat, Kubernetes/ OpenShift, standard/contanerized linux deployments, Azure pipelines, ...)</li> </ul>
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Related Technologies	<ul style="list-style-type: none"> <li>• Blockchain: Bitcoin, Ripple, Ethereum, Corda R3, Lightning, ...</li> <li>• Dev. Stack: Java, Kotlin, VertX, web3j, Solidity</li> <li>• Software Architectures: monolithic and micro(decoupled), Kafka, asynchronous, event-streams</li> <li>• Data Architecture: JSON/JSON-Schema, Eventually consistent distributed databases ("blockchain")</li> </ul>
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	<ul style="list-style-type: none"> <li>• Front-End: Angular 10</li> </ul>
Date	September 2015 - July 2016
Employer	<a href="#">Everis</a> (an NTT Data Company)
Title	Solutions Specific Knowledge Analyst
Duties	<ul style="list-style-type: none"> <li>• Software integration and system integration(<b>Java/JEE/Spring, Docker</b>)</li> <li>• Web Component developer (<b>Javascript, JQuery, CSS, Selenium functional-testing</b>)</li> <li>• <a href="#">Java implementation</a> of the <a href="#">Interledger protocol</a> in <b>Java/Vert.X</b> and integration with Node.JS reference implementation.</li> </ul>
Related Technologies	<ul style="list-style-type: none"> <li>• Dev Stack: Java,JEE,Spring, Vert.X, Node.JS</li> <li>• DevOps: Docker</li> <li>• FrontEnd: Javascript, JQuery, CSS, Selenium functional-testing</li> </ul>
Date	January 2015 - June 2015
Employer	"Freelance"
Title	Software developer
Duties	<ul style="list-style-type: none"> <li>• 2/3-tier Web Software development</li> <li>• code review and quality assurance.</li> <li>• Software integration.</li> </ul>
Related Technologies	<ul style="list-style-type: none"> <li>• Dev. Stack: Java/JEE/Spring, Python, PHP, C/C++, JavaScript</li> </ul>
Date	October 2011 - December 2014
Employer	<a href="#">Viotech Labs</a>
Title	Services Development Manager
Duties	<ul style="list-style-type: none"> <li>• Coordination&amp;implementation of a cross-platform system (Android, iOS, Web) home entertainment system. The system is composed of a home server ("advanced set-top box") able to adapt and stream content to the different clients. Other provided functionalities include a multi-channel sharing mechanism, chat/video-conference, smart-TV functionalities -for example possibility to watch TV and browse the web simultaneously- Development of the server based on <b>Python+Twisted</b> (API design, unit-test, functional-tests, documentation).</li> <li>• Development of the Web client based on HTML+Javascript+CSS, using advanced HTML5 technologies (<b>WebSockets, WebRTC, AJAX, ...</b>).</li> <li>• The server is about 15000 lines of Python code and the HTML client about 17000 lines of javascript code.</li> <li>• Research and integration of different technologies for <b>video content adaptation</b> (transcoding, bandwidth adaptation, HLS &amp; DASH streaming). Development and support of a <b>multithreaded C server</b> to transcode in</li> </ul>

parallel **live(real time transcoding) TV**. Creation and maintenance of the Debian packages and "continuous-integration" infrastructure.  
Adaptation to embedded ARM systems using the **cross-compilation GCC tool chain**.

- Support for the R&D [Alicante project](#), mainly as software developer, implementing different protocols and technologies presented in the software stack/architecture. (with different services implemented in **Java/JEE/Spring**, Python and PHP)
- Development of an embedded application (implemented in **LUA** with C extensions and an HTML5 Interface) for P2P video delivery

#### Related

##### Technologies

- Dev.Stacks: Python+Twisted, C, LUA, Java/JEE/Spring
- Front-End: HTML5, WebSockets, WebRTC, Video Content Adaptation (DASH, HSL)
- Software Architecture: Real Time, Client/Server, P2P,
- Data Architecture: JSON, XML, binary compressed video protocols.

Notes	work environment: French and English
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Date	May 2010 - Sep 2011
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Employer	"Freelance"
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Title	Software developer
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#### Duties

- Development of a **VoiceXML** custom front-end to control a telephony system based on **Siatvox**. The system includes the development of a **C++ dll extension** to the Siatvox platform, a java extension to **JVoiceXML** as well as an intermediate (java) message broker to provide for asynchronous communications between both ends (Siatvox and JVoiceXML).
- Development of a Java [Siruna adaptor](#) to automatically translate HTML into VoiceXML.
- Development of a **(Java+Spring+Hibernate)** webapp front-end for the administration and monitoring of the systems just described.
- Development of a **C++ (event-driven) application for Samsung Bada** phones providing a native (multi-)touch interface to PaginasAmarillas (YellowPages) as well as integration with Google Maps through an embedded browser.
- Development of an webapp for the administration of an custom IVR setup. The application was developed using PHP+Smarty+MySQL and JQuery (javascript) for the Web UI.

#### Related

##### Technologies

- Dev Stack: PHP, C++, Java+Spring+Hibernate, Siatvox
- Software Architecture: Client/Server, Mobile,
- Front-End: VoiceXML

Date	April 2007- September 2011 (I continued to work simultaneously for World Premium Rates as external IT consultant up to July 2009).
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Employer	DiversiaTV
Title	System Integrator
Duties	<ul style="list-style-type: none"> <li>• Creation of the hardware requirements &amp; software specifications for a custom <b>Video On Demand</b> solution and entertainment system for hotels and hospitals.</li> <li>• <b>PHP/Javascript/CSS/Shell script</b> programming.</li> <li>• <b>SVN</b> Repository administration&amp;coordination.</li> <li>• development/maintenance of a custom network-bootable PXE linux distribution for embedded systems (VIA fanless and Intel atom clusters). By 2009 there were more than 1000 deployed clients working 24x7.</li> <li>• <b>quality-assurance</b>(manual checks and inspection of source code as well as development of unit-tests).</li> <li>• Development of a pluggable system to connect the Video On Demand to Hotel's management software, either directly or through the mediation of the <b>Char uTile middleware</b>.</li> <li>• (July 2009 to October 2009) :implementation and manufacturing control of an <b>universal infrared transceiver</b> controlled by software. The hardware was designed to be fully adaptable to different IR protocols and provides extra I/O ports to simplify integration with domotic systems. It was based on the previous design from <a href="#">Albert Huitsing FTDI design</a> with a few bugs fixed (see cite 2-7-2009 about Enrique's patch)</li> </ul>
Related Technologies	<ul style="list-style-type: none"> <li>• Dev. Stack: PHP/Javascript/CSS/Shell script</li> <li>• Dev Ops: Subversion (SVN)</li> <li>• Software Architecture: Video On Demand streaming, Midleware</li> <li>• Hardware: micro-controller</li> </ul>
Date	December 2005 - July 2009
Employer	<a href="#">World Premium Rates</a>
Title	R&D - Software Developer - Linux System Administrator
Duties	<ul style="list-style-type: none"> <li>• Studying, designing and implementing new payment systems based on Premium SMS &amp; Phone calls, as well as automating &amp; monitoring of IT systems and billing processes (watchDog, automated log reporting,...).</li> <li>• Porting/correcting/updating existing documentation to the new CMS based on <b>Plone</b></li> <li>• Development of a <b>multi-threaded web app offering real time statistics &amp; charts</b> (0.5 seconds maximum delay with up to 100 simultaneous users). Major Spanish TV broadcasting companies -Endemol, Tele5, Antena3, ...- use it in a daily basis to check audience response. The chart system was developed with the help of <b>The Dojo Toolkit</b> (100% Javascript+SVG, no flash plugin). The final code added up to 8874 lines of java, 3627 lines of jsp, 800 lines of javascript and about 1500 lines of shell scripts for supporting task. (HTTP unit-tests, deployment, backups, logging facilities).</li> </ul>



- Integration with external **messaging systems** (**mBlox**, **Latinia** and custom designed WAN connectors).
- Development of supporting infrastructure for telephony applications (CMS, call-centers, TV shows).  
Development of a bus-bridge to control the internal PBX call flow through external Java servlets
- Replacement of time-critical database queries with in-memory java cache for real-time applications. (improving the response time of applications by orders of magnitude)
- Multimaster clustering of Java applications using **Terracotta**.

#### Related

#### Technologies

- Dev Stack: Java, Javascript
- Front End: Dojo Toolkit
- Content Management System: Plone
- Software Architecture: client/server, middleware, distributed processing
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Date	June 2005 - December 2005
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Employer	"Freelance"
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Title	Freelance Consultant
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#### Duties

- providing advice for modeling, developing and integrating database based solutions for the enterprise using standard Web technologies (J2EE, **Spring Web Flow**, ...)
- custom python-based solutions for fast development.

Date	October 2002 - September 2003: (I continued to work as freelance consultant for DARATEL).
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Employer	<b>CENTRO DE CALCULO of the UNIVERSITY OF ZARAGOZA</b> ( <a href="http://www.unizar.es/sicuz/">http://www.unizar.es/sicuz/</a> ) (After passing a national public entrance exam, 4th classified over 200 examined.)
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Title	Programmer-Analyst
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#### Duties

- planning of the deployment of a *802.11g* network over the Campus with Central Authentication based on *802.11X* standards (EAP and RADIUS)
- Study of different solutions for VPN technologies
- Maintenance of several **Solaris 8/9** servers

Date	March 2001-November 2005
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Employer	<b>DARATEL</b> ( <a href="http://www.daratel.com">http://www.daratel.com</a> )
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Title	Programmer
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#### Duties

- Development of a custom **Supply Chain/ERP+CRM Web application** based on J2EE for internal/external use. **JBoss** was used as application server and PostgreSQL as DDBB.



- Setup of Siemens **HiPath HG1500** PBX to VoIP gateways, including PBX trunking through DSL and IP Wan Networks, using Linux netfilter to provide QoS.
- Setup and maintenance of clients servers: *SMTP/POP3/IMAP servers* running on **Postfix, Spamassasin, Pymavis, Procmail**
- Setup and maintenance of the network firewall (Linux IPTable based), proxy-caches (Squid), VPNs (OpenVPN with PKI), *Terminal Servers*, Windows Domain Controllers, Radius and LDAP.
- Development of "small" applications based on CGI Scripts.
- Development of an Web Content Management System based on Plone+Archetypes.
- Setup and maintenance of a Central Backup system.

Related Technologies	<ul style="list-style-type: none"> <li>• Software Stack: J2EE, CGI Scripting, Python+Plone</li> <li>• Front-End: HTML5, Server Side Rendering</li> <li>• DevOps: Linux, Postfix, Backups, VPNs, LDAP, Windows Authentication</li> <li>• Hardware: Siemens HiPath HG1500 PBX</li> <li>• Software Architecture: Client/Server</li> </ul>
Date	September 2000 - February 2001
Employer	N/A - English student stay in Bournemouth - Dorset
Title	Student (English practices)
Duties	
Date	October 1999 - March 2000
Employer	N/A
Title	Student
Duties	<ul style="list-style-type: none"> <li>• Development of a particle detector simulator using <b>GEANT4</b> (toolkit of physics libraries based on <b>C++ and STL</b>). More info at: <a href="http://geant4.cern.ch/">http://geant4.cern.ch/</a></li> </ul>
Date	March 1999 - October 1999
Employer	<b>N/A (Military Service)</b>
Title	Recruit
Duties	<ul style="list-style-type: none"> <li>• Updating of the computing system for the management of recruits including upgrading the graphics user interface of the data base (Access).</li> <li>• Development of an automatic system for periodic backups.</li> <li>• Networking the different computers available</li> <li>• Creation of an Excel+VBScript software for calculating effective staff work hours.</li> </ul>

## LANGUAGES

- ENGLISH : Fluent
- FRENCH : Fluent
- ITALIAN : Basic
- SPANISH : Native

## External Links

- [Profile @ Stack exchange](#)
- [GitHub Account](#), [GitHub Activity](#)
- [\(Boring\) Linked-In profile](#)
- ["IT notes"](#) personal project based on the [Single-Page Book Project CMS](#).
- [TXT World Domination](#) personal project (IT Notes "2.0")

## WARNING: CONS

**Skills or educations I am missing** (in my "TO-DO" list) include better familiarity with Machine Learning/IA and Big data technologies.

**Skills I am really bad at include** administrative work (keeping my CV updated, reporting working hours, ...), PowerPoint tasks, work without coffee.