## ALONSO ISIDORO ROMAN SOFTWARE ARCHITECT/DATA ENGINEER

HTTP://GITHUB.COM/ALONSO

HTTPS://STACKOVERFLOW.CO M/USERS/449303/AIRONMAN HTTP://@ALONSO\_ISIDORO E.COM/ALONSOIR

HTTPS://WWW.GITSHOWCAS HTTP://AIRONMAN2K.WORDP RESS.COM HTTPS://WWW.LINKEDIN.CO M/IN/ALONSO-ISIDORO-ROM...

HTTPS://ABOUT.ME/ALONSO.I SIDORO.ROMAN/GETSTARTED Q

## **ABOUT ME**

DNA study and everything related to how to use technology to improve people's health, quality of life and productivity.

A software engineer, eternal learner, timelessly curious. I love

science, all of them, but particularly particle physics, astrophysics,

I also love arts and artist from reinassance movement, DaVinci, Michellangelo, Rafael, of course Goya, Velazquez, El Greco, Tiziano, representatives of the impressionist movement, such as Van Gogh, Renoir, Monet, Degas. Of those who are alive I like Antonio Lopez very much.

I have dreams to fulfill, to be able to work one day at CERN in Geneva contributing in some particle physics experiment. Another dream is to be able to work at the ESA trying to find habitable exoplanets, to work helping to create a system of recommendations so that medical

specialists can quickly find a diagnosis to diseases and finally I would like one day to create a foundation to help train the new generation of engineers from their earliest childhood, learning to design hardware and software while they play.

WORK EXPERIENCE SEP - 2017 ■ SOFTWARE ARCHITECT/DATA JAN - 2020

## normalized databases. These data are used by a referral system so that

college students get the best possible referral based on what the college The idea is to design a scalable distributed architecture of data consumption following the CQRS pattern, Command Query Responsibility Segregation, so that following this pattern, I can segregate the writes and

microservices architecture to be able to perform Extract Transform and

load data from differents sources using json, csv, txt files and external

P: +34667519829

alonsoir@gmail.com

microservices dockerized and managed with Mesos following the Orchestrator pattern to manage the distributed transactionality inherent to each of the microservices together with a series of steps based on classification algorithms (machine learning), my colleagues and me built this architecture to give the best possible recommendations to the students of the university. I was in charge of designing and implementing the distributed architecture and my fellow data scientists in the selection of deep learning algorithms and implementation of the different phases for classification.

I am using java, spring-boot, spring-cloud technologies like Eureka,

Ribbon, Feign, docker, mesos, kafka, and a distributed postgresql port

■ REASEARCH AND DEVELOPMENT JUL - 2019 JAN - 2020 STRATIO, BADAJOZ In my free time i developed some open source projects, at the same time i was hired by Stratio. An scalable event-oriented recommendation engines based on apache

https://github.com/alonsoir/awesome-recommendation-engine A proof of concept designed to detect and classify variable stars in stellar images taken by radio telescopes. This type of stars allows you to create a map to create routes in interstellar space.

periodically interrogate the bitcoin quote and make it available for multiple outside requests. I used java, spring-boot, kafka, elastic-search and docker. https://github.com/alonsoir/demo-kafka-elastic

Also I have been working during the end of the year on a project to try to

success but very useful because it has allowed me to practice with the

I have participated in the review of a book on Kafka-Streams of the Pack

find out the numbers of the euromillions and the primitive, with little

functional style of the api stream that appeared with the jdk8.

https://github.com/alonsoir/demo-quartz

Basilea 4.

■ BIG DATA ENGINEER KEEDIO, MADRID I have participated in the development and integration of a lambda

imposed by the central banks to these systemic banks too big to fall,

The idea is to process multiple sources of unstructured data To finally arrive at a calculation of the credit risk of the bank Santander. For this we need the use of a series of components, such as Apache Flume and

Apacha Kafka for the raw data intake in avro format in the landing zone of

consolidation of the avro files in other format, parquet, which would then

enrichment engines, user view creation engines that are also used for a

The technologies used are scala as first language, some of java, hadoop,

My concrete participation in this project was to create a utility to create

the data lake, then we have a series of engines in charge of the

be exploited in the form of Hive tables in the integration with the company that is responsible for the exploitation of architecture,

Last phase where we finally create an excel file.

cloudera, spark, kafka, flume, shell scripts.

files parquets, validation, correction in case of error, parts of the api, as a set of works spark to validate quantitatively and qualitatively the architecture delivered, In other words, a method to check that the software is correct, doing the calculations correctly, applying mechanisms designed by the bank, using scala. I develop too the part of api responsible for making necessary currency conversion, since the solution delivered is designed to be executed generically for all delegations of the Santander bank in the world, sixteen today.

apache kafka, apache spark and some nosql databases like mongodb and Cassandra and another project about how to implement machine learning algorithms (ALS) for a recommendation engine. This project uses Apache hadoop and Apache Kafka and apache Spark, both projects are developed using the Scala language. https://github.com/alonsoir/hello-kafka-twitter-scala https://github.com/alonsoir/cassandra-spark-twitter-scala-app https://github.com/alonsoir/awesome-recommendation-engine ■ BIG DATA ARCHITECT NOV - 2015 FEB - 2016

SYNERGIC PARTNERS, MADRID

My task is to design big data architectures for different clients of

JUN - 2015 TEKTRONIX, MADRID A BigData project related to the field of telecommunications. The final goal of the project is to show on a map the incidents in real time based on telecommunications optical fiber of a big city. I design a tool similar to Flume for doing ETL tasks from different locations and source files, a tool similar to SQOOP for doing ETL from different SQL engines, and a tool designed to manage the orderly and coordinated invocation of the different components of the architecture, in which there are phases in which Apache Spark is used to calculate the noise in each of the layers of the tree. The related technologies are Java7, apache spark, Apache Camel, Apache

Impala, Hadoop, Spark, maven, postgresql and GNU/linux.

■ BIG DATA ENGINEER

MYSELF/TRAINING, BADAJOZ

like apache kafka, apache flume, mongodb.

SOFTWADE ENGINEED

I did some courses from BigDataUniversity.com.

NAEVATEC/KURENTO, MADRID

RESTFUL web services implemented with spring MVC.

Madrid http://www.madrid.org/cs/Satellite? pagename=HospitalNinoJesus/Page/HNIJ\_home

■ PARTNER AND CTO

BADAJOZ

JORGE CALVO LAW OFFICE,

NON SQL connector like spring-data project .

■ SOFTWARE ENGINEER

ATSISTEMAS/OCASO INSURANCE, MADRID

■ SOFTWARE ENGINEER

from sources project from Alfresco.

■ SOFTWARE ENGINEER

of the architecture.

ATSISTEMAS/PEUGEOT, MADRID

ATSISTEMAS/ING, MADRID

html5 and jquery. The purpose of this proof of concept is to know where are the different buses of Dublin city, so that every person can see the bus in a map provided by google maps. I made another project, with mongodb, spring mvc, rabbitmq broker message with stomp support and a bit of html5, jquery and css3. The purpose of this project is to save different events provided by a user.

I started my own tech blog, aironman2k.wordpress.com and i started to learn Apache Spark, with cloudera, how to use it with other technologies

I developed the core of a set of restfull web services for a whatsapp type service, also i had to develop a couple of Controllers using iOS and XCODE. The technology was a mix of j2ee 1.7, spring\*, hibernate and bouncy castle for the java core and objetive C and Xcode for the iOS app. The core is an implementation of the command pattern over a set of

The service is deployed and ready to use for the Hospital Niño Jesus from

payment arrears with delinquent tenants of a neighboring community or

Dispatch management legal advice ... The technology used is Spring MVC, ajax, hibernate, Rational, Websphere 7, jquery, prototype, WAS7, jdk1.6, Clear CaseNovember 2010 March 2011The client was the Ministry of Justice, Government of Spain and the task was to develop the electronic apostille. I used a framework based at

My job was to tune and customize Alfresco Comunity Edition in a production environment so that the client could store their web pages,

could autodeploy if system crash. This feature does not have the

community version and asked me to devise a solution that would allow. The solution was a mixture of bash shell scripts, Cron and modification

■ SOFTWARE ENGINEER SADIEL/SES, MERIDA A project for the Department of Health and dependence to define a development framework that would meet the needs of all stakeholders in development teams. The project took off as mades, is based on a framework of the Junta de Andalucia. http://www.juntadeandalucia.es/xwiki/bin/view/MADEJA/ ■ SYSTEMS ENGINEER MAR - 2009

I performed the installation and configuration of about 80 machines with

I conducted safety audits of electronic banking software that is being implemented in the savings banks, using JMeter and JProbe to detect

Collaborate on product integration functionality by adding a series of web services that provide electronic signature with national manufactures coin

memory leak problems as well as performance issues

their OS and office suites, as well as individual configuration.

ALTEN/L'OREAL, MADRID

■ SOFTWARE ENGINEER

■ SOFTWARE ENGINEER

ALTEN/FOGASA, MADRID

Telematic project for a Wage Warranty Fund.

ALTEN/TELEFÓNICA, MADRID

and stamp. FNMT http://www.fnmt.es/

■ SOFTWARE ENGINEER

■ SOFTWARE ENGINEER.

R & D / Enhancements and features.

Consultant, Developer, R&D.

www.paginasamarillas.es

ALTEN/YELL SPAIN. MADRID

ALTEN/CECA, MADRID

■ SOFTWARE ENGINEER INDRA/AVIVA, BADAJOZ Developer, R&D and testing.

architecture based on AndroMDA technology

Indra software labs, Badajoz, Badajoz, Spain.

INDRA/RED ELÉCTRICA DE

Indra software labs, Badajoz, Badajoz, Spain.

■ SOFTWARE ENGINEER

ESPAÑA, BADAJOZ

■ SOFTWARE ENGINEER

Developer, testing.

http://galaxy.andromda.org/

**HYPERLINK** 

OCT - 2005 JAN - 2006

MAR - 2005

SEP - 2004

OCT - 2019

JAN - 2020

MADRID

TELENIUM/IBERMUTUAMUR.

VFINCA Project, Securities and investment funds.

Project ST-CAT (Work System for Territorial Administrative Centres). Multi-entity for the management and treatment of collections at offices

Technologies: Java/J2EE, JSP, JDBC, Servlets, JavaBeans, EJB, XML, XSL,

and workplaces across the national network of Mapfre Mutual.

MySQL DB. The other application was to extract data from the databases and generate a q19.

Maintenance and expansion of the website "http://www.area10.es/" www.area10.es, developed with php, html, css, javascript and mysql.

I reviewed the code and text of some chapters on how to stream with Kafka, Flink, Spark Streaming, as well as KafkaStreams. I added notes, improved the text, fixed the source code among other tasks. Very

Arora, • BigDataUniversity.com. (40 hours), Introduction to Scala, with Jamie Allen, BigDataUniversity.com (40 hours), Machine Learning Course, from Andrew Ng, Stanford College, Coursera.org (480 hours) Not finished yet.

hours) Finished SKILLS Java

Junit testing html javascript SQL **Application Servers** git

Flink Deeplearning Cloudera Concurrent programming iOS coding Maven Hudson

**Jenkins** 

**JMeter** 

**Jprobe** 

Kafka

Spanish English HOBBIES Sciences, Videogames, reading sci-fi, graphic novels,

HTML (750 hours), Programming, with Glen Mules

ENGINEER STRATIO, MADRID I participate in the design and development of a project to NCOI (NCOI Opleidingen, @NCOlopleidingen), designing and developing a scalable

knows about them. readings in a distributed system so that the writes go to a cluster of data

develop by Stratio.

independent of the other cluster of data readings. Together with the use and implementation of an architecture based on

spark deep learning algorithms, using kafka as an event engine, mongodb as a persistence engine, written in scala and published in GitHub. I started a time ago, with the advice of my fellow data scientist from Stratio, I've given it a few tweaks.

https://github.com/alonsoir/demo-dl4j I have also been researching the use of api deeplearning4j for facial recognition. https://github.com/alonsoir/demoFaceRecognition A scalable orchestration-based microservice architecture in order to

Publishing house, both the text and the code. Https://github.com/alonsoir/KafkaStreaming. architecture created for Banco Santander in order to apply a solution

Finally I was also in charge of integrating the software in the place of exploitation chosen by the Bank. FEB - 2016 ■ BIG DATA ENGINEER NOV - 2016 MYSELF/TRAINING, BADAJOZ I have been studying and doing various training courses, like learning scala more seriously with BigDataUniversity, machine learning with Professor Andrew Ng and Apache Spark and hadoop architectures using a

formacionhadoop.com course. As a result of that training I have written a couple of projects hosted on github to treat tweets in near real time using

Telefónica and synergic partners alone. I have participated in the initial proposal for Santander and OpenBank developing a book for them, and another proposal for a local newspaper, La Vanguardia, as well as maintaining the training cluster we have in the The cluster is handled with Cloudera Manager. I am learning scala and big data programming skills with BigDataUniversity.com in my free time. ■ BIG DATA ENGINEER

I have developed a some proofs of concepts related with map reduce task with the data provided by datos.gob.es and Facebook data. Another project related with how to get real time data on a web broser using web sockets, spring integration, rabbitmq with stomp support,

JAN - 2014

AUG - 2013

JAN - 2014

I developed a project for industrialize the process of creating demand on rural. I used openxava framework. ■ CEO/CTO SMARTBUYER, BADAJOZ

I built an IOS5 based application that makes heavy use of geo-location and consumption of Web services. After I finished developing the application, I decided to create a complete solution that allows

businesses to buy products at a physical store using the smartphone's camera to read barcodes and Web services on the server. On the server side, the technologies used on the implementation were - apache CXF RESTful web services, JSON and / or XML as a mechanism for exchange of information, HashMaps competing for a cache in which to save the customer information, items to sale and the accounting entries from the sale of items, - a thread engine to launch the consultation request and / or updates on the map, hibernate as a persistence and MYSQL as an engine for data persistence. I have pending to upgrade the system with a

I implemented operational functionality, such as Research Records, the ministry's own Spring MVC, Spring WebFlow, hibernate, ajax and use of caches, specifically EHCache.

SEP - 2010

JAN - 2010

AUG - 2010

NOV - 2008

DEC - 2008

MAY - 2008

NOV - 2008

AUG - 2007 AUG - 2008

NOV - 2006

JUL - 2007

OCT - 2006

NOV - 2006

JUN - 2006

Technology used - Spring framework, namely SpringJDBC for the persistence layer, j2ee services that have injected the damages. I also designed and implemented a concurrent and distributed cache adapted to customer needs, based on the use of ConcurrentHashMap class, threads iterating over this cache and implentacion Sun's Java Message Services to let persistency over the data. (To perform the quality and performance report I relied on the use of the tools Google Page Speed and Yslow.)

My job was to design and implement a range of business services related to how quality management is performed at their factories. The project involved drafting a quality report indicating weak points and strong points

Technology consultant, research and development, testing, technical leadership. Project e-marketplace Telefonica R & D. In this project I work as a consultant, especially much R & D to design and implement an SOA architecture based on Java, learned to handle the java api and Websphere Service Registry (WSRR) from IBM, as well as its management interface, web services Java, mixed with different access databases, in addition to better knowledge of English because I had to work closely with IBM consultants foreigners.

Implementation of several J2EE-based SOA architectures for use in a new

version of the website of the yellow pages and white pages.

Builder project / Implementation of maintenance of proprietary

of cases of end user applications for AVIVA, asurance business

In this project I work on technical design and implementation of a number

"http://www.aviva.es/es/corporativa/"http://www.aviva.es/es/corporativ

INDRA/AMAEF, BADAJOZ Develop with Indra a solution for banking and insurance could communicate with each other. Intensive use of web services and caching resources with a good class design using patterns like singleton, single sign on, facade, aggregation, data access object

R & D in Java Server Faces, Java Studio Creator 2, we made a port of a use

REE-ARAP Project (Spanish Electricity Network) http://www.ree.es/

Users Maintenance DIRA integrated proprietary system.

IB Training Project: System user multi user management And Ibermutua customers. http://www.ibermutuamur.es/ medical assurance.

SICONET/MAPFRE, MADRID

Programmer Analyst Jr

Development and design tco.

of databases on Access2k: a complete application for inventory control and another to consult on the set of distance learning centers throughout Spain. Application Development in Visual c + +. The first data to insert that came home in q19 format and insert them into a DB in Access 2k and other

Indra software labs, Badajoz, Badajoz, Spain. http://www.amaef.es/ ■ SOFTWARE ENGINEER INDRA, BADAJOZ

case VFINCA a JSF project.

■ SOFTWARE ENGINEER

INDRA, BADAJOZ

Data base admin. J2EE coder.

■ SOFTWARE ENGINEER

Analyst, Developer. ■ SOFTWARE ENGINEER

Eclipse, WSAD, UML, Architecture mapfre version 2. ■ SOFTWARE ENGINEER AREA 10, BADAJOZ Developer Development of a range of applications in visual basic 6 with their design

UNTITLED ■ TEXT AND CODE REVIEWER OF A BOOK ON KAFKA STREAM FOR PACKT PUBLISHING. PENDING RELEASE.

BADAJOZ

instructive task, I loved it, really.

Badajoz **EDUCATION** INGENIERIA TÉCNICA INFORMÁTICA DE SISTEMAS POLYTECHNIC SCHOOL OF CÁCERES, CÁCERES, SPAIN 2004 · Masters Java/J2EE-Oracle-XML (352 hours) Finished Specialized Coursework Advanced Java Programming Course (42 hours, Web Services Programming Course (94 hours), IOS 5 course (90 hours),PHP, JAVASCRIPT, · Introduction to MapReduce and Warren Pettit, BigDataUniversity.com (40 hours), · Hadoop Fundamentals 1 -Version 2 with Keith McDonald, Akmal B. Chaudhri, Bradley Steinfeld, Carlos Renteria, · BigDataUniversity.com ((40 hours)), Stream Computing 1, with Martin Siegenthaler, Robert Uleman, Anjali Agarwal, Rachit Master Big Data Expert, from Fernando Agudo Tarancon, formacionhadoop.com (150

Spring Framework Hibernate Big Data Spark Cassandra Hadoop

Scala Akka Apache software projects GNU/Linux Bash scripting python LANGUAGES