## ALONSO IŞIDORO ROMÁN SOFTWARE ARCHITECT/DATA ENGINEER Badajoz **WEBSITES &**

SOCIAL LINKS

Stackoverflow:

http://GitHub.com/alonsoi

https://stackoverflow.co

http://@alonso\_isidoro

Github Showcase:

om/alonsoir

Blog:

ss.com

Linkedin:

About.me:

**SISTEMAS** 

Cáceres 2004

m/users/449303/aironm...

https://www.gitshowcase.c

http://aironman2k.wordpre

https://www.linkedin.com/

in/alonso-isidoro-roman-...

https://about.me/alonso.is

idoro.roman/getstarted

**EDUCATION** 

INGENIERIA TÉCNICA INFORMÁTICA DE

Polytechnic School of

Masters Java/J2EE-

Oracle-XML (352

Specialized Coursework

**Programming Course** 

**Programming Course** 

JAVASCRIPT, HTML

(94 hours), IOS 5 course

Programming, with Glen

BigDataUniversity.com

Hadoop Fundamentals

McDonald, Akmal B.

BigDataUniversity.com

((40 hours)), Stream

Computing 1, with

Martin Siegenthaler,

Robert Uleman, Anjali

Agarwal, Rachit Arora,

• BigDataUniversity.com.

to Scala, with Jamie

(40 hours),

Tarancon,

SKILLS

Spring Framework

**Application Servers** 

Java

html

SQL

git

Big Data

Cassandra

Hadoop

Kafka

Flink

Deeplearning

Concurrent programming

Apache software projects

LANGUAGES

Cloudera

iOS coding Maven

Hudson

**Jenkins JMeter** 

**Jprobe** 

Scala

Akka

Selenium

GNU/Linux

python

Spanish

English

novels,

HOBBIES

Sciences, Videogames,

reading sci-fi, graphic

Bash scripting

Spark

Hibernate Junit testing

javascript

Machine Learning

(40 hours), Introduction

BigDataUniversity.com

Course, from Andrew

Ng, Stanford College,

• Master Big Data Expert, from Fernando Agudo

formacionhadoop.com

(150 hours) Finished

Coursera.org (480 hours) Not finished yet.

Chaudhri, Bradley

Steinfeld, Carlos

Renteria,

1 - Version 2 with Keith

Mules and Warren

hours) Finished

Advanced Java

(42 hours,

Web Services

(90 hours),PHP,

(750 hours),

Introduction to

MapReduce

Pettit,

(40 hours),

Github:

Twitter:

r

ABOUT ME A software engineer, eternal learner, timelessly curious. I love science, all of them, but particularly particle physics, astrophysics, DNA study and everything related to how to use technology to improve people's health, quality of life and productivity. I also love arts and artist from reinassance movement,

DaVinci, Michellangelo, Rafael, of course Goya, Velazquez, El Greco, Tiziano, representatives of the impressionist who are alive I like Antonio Lopez very much. I have dreams to fulfill, to be able to work one day at CERN in

movement, such as Van Gogh, Renoir, Monet, Degas. Of those 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

readings.

by Stratio.

routes in interstellar space.

appeared with the jdk8.

an excel file.

chosen by the Bank.

Scala language.

synergic partners alone.

optical fiber of a big city.

spark, kafka, flume, shell scripts.

https://github.com/alonsoir/demo-dl4j

https://github.com/alonsoir/demoFaceRecognition

https://github.com/alonsoir/demo-kafka-elastic

BIG DATA ENGINEER | Keedio | 2016 - 2017

to these systemic banks too big to fall, Basilea 4.

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

used java, spring-boot, kafka, elastic-search and docker.

students of the university.

of the different phases for classification.

@NCOlopleidingen), designing and developing a scalable microservices architecture to be able to perform Extract Transform and load data from differents sources using json, csv, txt files and external normalized databases. These data are used by a referral system so that college students get the best possible referral based on what the college knows about them.

WORK EXPERIENCE **SOFTWARE ARCHITECT/DATA ENGINEER** | Stratio | 2017 - 2020 I participate in the design and development of a project to NCOI (NCOI Opleidingen,

a foundation to help train the new generation of engineers software while they play.

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 readings in a distributed system

so that the writes go to a cluster of data independent of the other cluster of data

Together with the use and implementation of an architecture based on 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

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

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

In my free time i developed some open source projects, at the same time i was hired

An scalable event-oriented recommendation engines based on apache 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

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

I have also been researching the use of api deeplearning4j for facial recognition.

A scalable orchestration-based microservice architecture in order to periodically interrogate the bitcoin quote and make it available for multiple outside requests. I

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

because it has allowed me to practice with the functional style of the api stream that

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

house, both the text and the code. Https://github.com/alonsoir/KafkaStreaming.

I have participated in the development and integration of a lambda architecture

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

engines in charge of the consolidation of the avro files in other format, parquet,

intake in avro format in the landing zone of the data lake, then we have a series of

which would then be exploited in the form of Hive tables in the integration with the

company that is responsible for the exploitation of architecture, enrichment engines,

user view creation engines that are also used for a Last phase where we finally create

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

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

words, a method to check that the software is correct, doing the calculations

correctly, applying mechanisms designed by the bank, using scala.

of the Santander bank in the world, sixteen today.

BIG DATA ENGINEER | Myself/Training | 2016 - 2016

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 | Synergic Partners | 2015 - 2016

maintaining the training cluster we have in the company.

BIG DATA ENGINEER | Tektronix | 2014 - 2015

programming skills with BigDataUniversity.com in my free time.

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

I develop too the part of api responsible for making necessary currency conversion,

Finally I was also in charge of integrating the software in the place of exploitation

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

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

The cluster is handled with Cloudera Manager. I am learning scala and big data

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

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

components of the architecture, in which there are phases in which Apache Spark is

The related technologies are Java7, apache spark, Apache Camel, Apache Impala,

I have developed a some proofs of concepts related with map reduce task with the

Another project related with how to get real time data on a web broser using web

purpose of this proof of concept is to know where are the different buses of Dublin

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

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 like apache kafka, apache

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

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

I developed a project for industrialize the process of creating demand on payment arrears with delinquent tenants of a neighboring community or rural. I used openxava

I built an IOS5 based application that makes heavy use of geo-location and

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

the system with a NON SQL connector like spring-data project .

**SOFTWARE ENGINEER** | *ATSistemas/Ocaso insurance* | 2011 - 2011

I implemented operational functionality, such as Research Records, Dispatch

apostille. I used a framework based at the ministry's own Spring MVC, Spring

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

The solution was a mixture of bash shell scripts, Cron and modification from sources

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

Technology used - Spring framework, namely SpringJDBC for the persistence layer,

(To perform the quality and performance report I relied on the use of the tools Google

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

I performed the installation and configuration of about 80 machines with their OS and

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

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

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

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

Builder project / Implementation of maintenance of proprietary architecture based on

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

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

**SOFTWARE ENGINEER** | *Indra/Red Eléctrica de España* | 2006 - 2006

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

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

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

Users Maintenance DIRA integrated proprietary system.

**SOFTWARE ENGINEER** | *Indra/AMAEF* | *2006 - 2006* 

project took off as mades, is based on a framework of the Junta de Andalucia.

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

quality report indicating weak points and strong points of the architecture.

WebFlow, hibernate, ajax and use of caches, specifically EHCache.

**SOFTWARE ENGINEER** | *ATSistemas/ING* | 2010 - 2010

**SOFTWARE ENGINEER** | *ATSistemas/Peugeot* | 2010 - 2010

j2ee services that have injected the damages.

**SOFTWARE ENGINEER** | *Sadiel/SES* | *2009 - 2010* 

SYSTEMS ENGINEER | Alten/L'oreal | 2009 - 2009

SOFTWARE ENGINEER | Alten/CECA | 2009 - 2009

**SOFTWARE ENGINEER** | *Alten/Fogasa* | 2008 - 2008

SOFTWARE ENGINEER | Alten/Telefónica | 2008 - 2008

SOFTWARE ENGINEER. | Alten/Yell Spain | 2007 - 2008

the website of the yellow pages and white pages.

**SOFTWARE ENGINEER** | *Indra/AVIVA* | 2006 - 2007

AndroMDA technology http://galaxy.andromda.org/

end user applications for AVIVA, asurance business

Indra software labs, Badajoz, Badajoz, Spain.

Indra software labs, Badajoz, Badajoz, Spain.

Indra software labs, Badajoz, Badajoz, Spain.

SOFTWARE ENGINEER | Indra | 2006 - 2006

**SOFTWARE ENGINEER** | *Indra* | 2006 - 2006 VFINCA Project, Securities and investment funds.

**SOFTWARE ENGINEER** | *Telenium/IbermutuaMur* | 2005 - 2006

And Ibermutua customers. http://www.ibermutuamur.es/ medical assurance.

IB Training Project: System user multi user management

**SOFTWARE ENGINEER** | *Siconet/MAPFRE* | *2005 - 2005* 

workplaces across the national network of Mapfre Mutual.

Project ST-CAT (Work System for Territorial Administrative Centres).

Multi-entity for the management and treatment of collections at offices and

Development of a range of applications in visual basic 6 with their design of

consult on the set of distance learning centers throughout Spain.

application was to extract data from the databases and generate a q19.

databases on Access2k: a complete application for inventory control and another to

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 MySQL DB. The other

Maintenance and expansion of the website "http://www.area10.es/" www.area10.es,

TEXT AND CODE REVIEWER OF A BOOK ON KAFKA STREAM FOR PACKT

source code among other tasks. Very instructive task, I loved it, really.

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

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

R & D / Enhancements and features.

Telematic project for a Wage Warranty Fund.

office suites, as well as individual configuration.

http://www.juntadeandalucia.es/xwiki/bin/view/MADEJA/

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

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

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

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

sockets, spring integration, rabbitmq with stomp support, html5 and jquery. The

city, so that every person can see the bus in a map provided by google maps.

designed to manage the orderly and coordinated invocation of the different

used to calculate the noise in each of the layers of the tree.

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

BIG DATA ENGINEER | Myself/Training | 2014 - 2014

data provided by datos.gob.es and Facebook data.

save different events provided by a user.

I did some courses from BigDataUniversity.com.

**SOFTWARE ENGINEER** | *Naevatec/Kurento* | *2013 - 2014* 

over a set of RESTFUL web services implemented with spring MVC.

PARTNER AND CTO | Jorge Calvo Law office | 2013 - 2013

**CEO/CTO** | *Smartbuyer* | 2011 - 2011

management legal advice ...

devise a solution that would allow.

project from Alfresco.

Page Speed and Yslow.)

as performance issues

http://www.fnmt.es/

with IBM consultants foreigners.

Consultant, Developer, R&D.

www.paginasamarillas.es

Developer, R&D and testing.

**HYPERLINK** 

Developer, testing.

object

http://www.amaef.es/

VFINCA a JSF project.

Data base admin, J2EE coder.

Analyst, Developer.

Programmer Analyst Jr

Developer

{ACK}

UNTITLED

| 2019 - 2020

PUBLISHING. PENDING RELEASE.

Development and design tco.

WSAD, UML, Architecture mapfre version 2.

**SOFTWARE ENGINEER** | *Area 10* | *2004 - 2005* 

developed with php, html, css, javascript and mysql.

flume, mongodb.

framework.

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

since the solution delivered is designed to be executed generically for all delegations

created for Banco Santander in order to apply a solution imposed by the central banks

numbers of the euromillions and the primitive, with little success but very useful

docker, mesos, kafka, and a distributed postgresql port develop by Stratio.

REASEARCH AND DEVELOPMENT | Stratio | 2019 - 2020

fellow data scientist from Stratio, I've given it a few tweaks. https://github.com/alonsoir/awesome-recommendation-engine

and me built this architecture to give the best possible recommendations to the

from their earliest childhood, learning to design hardware and