ALONSO ISIDORO ROMÁN

SOFTWARE ARCHITECT/DATA ENGINEER







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.

Monet, Degas. Of those who are alive I like Antonio Lopez very much.



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,

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.

WEBSITES & SOCIAL WORK EXPERIENCE

Stratio / Sep 2017 - Jan 2020 / Madrid

http://GitHub.com/alonsoir Stackoverflow:

LINKS

Github:

https://stackoverflow.com/users/449303/air onman

Twitter:

http://@alonso_isidoro Github Showcase:

https://www.gitshowcase.com/alonsoir

Blog:

Linkedin: https://www.linkedin.com/in/alonso-isidor

http://aironman2k.wordpress.com

o-roman-8ab57445/

arted

https://about.me/alonso.isidoro.roman/getst

EDUCATION

Ingenieria técnica informática de sistemas

2004

Polytechnic School of Cáceres / Cáceres, Spain

• Masters Java/J2EE-Oracle-XML (352

• Specialized Coursework Advanced Java Programming Course (42 hours,

hours) Finished

hours), IOS 5 course (90 hours), PHP, JAVASCRIPT, HTML (750 hours), • Introduction to MapReduce

Programming, with Glen Mules and

Warren Pettit, BigDataUniversity.com

• Web Services Programming Course (94

Keith McDonald, Akmal B. Chaudhri, Bradley Steinfeld, Carlos Renteria, • BigDataUniversity.com ((40 hours)),

Stream Computing 1, with Martin

Agarwal, Rachit Arora,

hours) Not finished yet.

Siegenthaler, Robert Uleman, Anjali

- Hadoop Fundamentals 1 Version 2 with
- 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

- Master Big Data Expert, from Fernando Agudo Tarancon, formacionhadoop.com (150 hours) Finished
- Spring Framework Hibernate

SKILLS

Big Data

Application Servers

- Cassandra
- Hadoop Kafka

Junit testing

html

SQL

git

Spark

javascript

Deeplearning

Flink

Cloudera

Concurrent programming

- iOS coding
- Maven Hudson
- JMeter Jprobe

Jenkins

Selenium

- Scala Akka
- Apache software projects GNU/Linux
- python

Bash scripting

LANGUAGES

Spanish

- English

The idea is to design a scalable distributed architecture of data consumption

SOFTWARE ARCHITECT/DATA ENGINEER

system so that college students get the best possible referral based on what the college knows about them.

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 readings. Together with the use and implementation of an architecture based on microservices

I participate in the design and development of a project to NCOI (NCOI Opleidingen, @NCOIopleidingen), 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

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 develop by Stratio.

by Stratio. An scalable event-oriented recommendation engines based on apache spark deep learning algorithms, using kafka as an event engine, mongodb as a persistence engine,

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

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

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

mechanisms designed by the bank, using scala.

the Santander bank in the world, sixteen today.

Myself/Training / Feb 2016 - Nov 2016 / Badajoz

https://github.com/alonsoir/hello-kafka-twitter-scala

https://github.com/alonsoir/cassandra-spark-twitter-scala-app

https://github.com/alonsoir/awesome-recommendation-engine

chosen by the Bank.

Scala language.

synergic partners alone.

BIG DATA ENGINEER

BIG DATA ENGINEER

flume, mongodb.

framework.

CEO/CTO

Myself/Training / Jan 2014 - Jul 2014 / Badajoz

I did some courses from BigDataUniversity.com.

SOFTWARE ENGINEER

Tektronix / Sep 2014 - Jun 2015 / Madrid

BIG DATA ENGINEER

appeared with the jdk8.

REASEARCH AND DEVELOPMENT

Stratio / Jul 2019 - Jan 2020 / Badajoz

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 periodically

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. **BIG DATA ENGINEER** Keedio / Nov 2016 - May 2017 / Madrid I have participated in the development and integration of a lambda architecture created for Banco Santander in order to apply a solution imposed by the central banks

an excel file. The technologies used are scala as first language, some of java, hadoop, cloudera, spark, kafka, flume, shell scripts.

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

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

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

BIG DATA ARCHITECT Synergic Partners / Nov 2015 - Feb 2016 / Madrid My task is to design big data architectures for different clients of Telefónica and

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

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

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

maintaining the training cluster we have in the company.

programming skills with BigDataUniversity.com in my free time.

The related technologies are Java7, apache spark, Apache Camel, Apache Impala, Hadoop, Spark, maven, postgresql and GNU/ linux.

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

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, 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

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

Naevatec/Kurento / Aug 2013 - Jan 2014 / Madrid 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 RESTFUL web services implemented with spring MVC.

SOFTWARE ENGINEER ATSistemas/Ocaso insurance / Jan 2011 - Jun 2011 / Madrid

Smartbuyer / Jul 2011 - Dec 2011 / Badajoz

ATSistemas/ING / Sep 2010 - Dec 2010 / Madrid 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 from sources project from Alfresco. **SOFTWARE ENGINEER** ATSistemas/Peugeot / Jan 2010 - Aug 2010 / Madrid

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,

I also designed and implemented a concurrent and distributed cache adapted to customer needs, based on the use of Concurrent HashMap class, threads iterating over this cache and implentacion Sun's Java Message Services to let persistency over the

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

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

j2ee services that have injected the damages.

Google Page Speed and Yslow.)

I performed the installation and configuration of about 80 machines with their OS and office suites, as well as individual configuration. **SOFTWARE ENGINEER**

performance issues

SYSTEMS ENGINEER

Alten/L'oreal / Mar 2009 - May 2009 / Madrid

Alten/CECA / Jan 2009 - Mar 2009 / Madrid

databases, in addition to better knowledge of English because I had to work closely with IBM consultants foreigners. SOFTWARE ENGINEER.

Alten/Yell Spain / Aug 2007 - Aug 2008 / Madrid

the website of the yellow pages and white pages.

Indra/AVIVA / Nov 2006 - Jul 2007 / Badajoz

R & D / Enhancements and features.

SOFTWARE ENGINEER

Developer, R&D and testing.

HYPERLINK

object

http://www.amaef.es/

Consultant, Developer, R&D.

www.paginasamarillas.es

SOFTWARE ENGINEER

Alten/Telefónica / May 2008 - Nov 2008 / Madrid

Indra software labs, Badajoz, Badajoz, Spain. **SOFTWARE ENGINEER** Indra/Red Eléctrica de España / Oct 2006 - Nov 2006 / Badajoz Developer, testing.

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

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

Users Maintenance DIRA integrated proprietary system.

Indra software labs, Badajoz, Badajoz, Spain.

Indra/AMAEF / Jun 2006 - Oct 2006 / Badajoz

Indra software labs, Badajoz, Badajoz, Spain.

SOFTWARE ENGINEER Indra / May 2006 - Jun 2006 / Badajoz

Indra / Feb 2006 - May 2006 / Badajoz

SOFTWARE ENGINEER

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Data base admin, J2EE coder.

Analyst, Developer.

Programmer Analyst Jr

Developer

RELEASE.

SOFTWARE ENGINEER

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

VFINCA Project, Securities and investment funds.

Telenium/IbermutuaMur / Oct 2005 - Jan 2006 / Madrid

IB Training Project: System user multi user management

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

Development and design tco. Technologies: Java/J2EE, JSP, JDBC, Servlets, JavaBeans, EJB, XML, XSL, Eclipse, WSAD, UML, Architecture mapfre version 2.

SOFTWARE ENGINEER Area 10 / Sep 2004 - Feb 2005 / Badajoz

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

Sciences, Videogames, reading sci-fi, graphic novels,

HOBBIES

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

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

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

> 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/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

> 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 https://github.com/alonsoir/demo-quartz Also I have been working during the end of the year on a project to try to find out the numbers of the euromillions and the primitive, with little success but very useful because it has allowed me to practice with the functional style of the api stream that

> 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 the data lake, then we have a series of engines in charge of the consolidation of the avro files in other format, parquet, 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 idea is to process multiple sources of unstructured data To finally arrive at a

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 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

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

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 like apache kafka, apache

The service is deployed and ready to use for the Hospital Niño Jesus from Madrid http://www.madrid.org/cs/Satellite?pagename=HospitalNinoJesus/Page/HNIJ_home PARTNER AND CTO Jorge Calvo Law office / Jan 2013 - Aug 2013 / Badajoz 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

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 NON SQL connector like spring-data project .

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

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

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

SOFTWARE ENGINEER Sadiel/SES / Oct 2009 - Jan 2010 / 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

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

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

SOFTWARE ENGINEER Alten/Fogasa / Nov 2008 - Dec 2008 / Madrid Telematic project for a Wage Warranty Fund. Collaborate on product integration functionality by adding a series of web services that provide electronic signature with national manufactures coin and stamp. FNMT http://www.fnmt.es/

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

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

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 as

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

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

end user applications for AVIVA, asurance business

SOFTWARE ENGINEER

Project ST-CAT (Work System for Territorial Administrative Centres). Multi-entity for the management and treatment of collections at offices and workplaces across the national network of Mapfre Mutual.

Siconet/MAPFRE / Mar 2005 - Oct 2005 / Madrid

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

UNTITLED

Oct 2019 - Jan 2020 / Badajoz 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 instructive task, I loved it, really.