ALONSO ROMAN ISIDORO

— BIGDATA SOFTWARE ENGINEER

CONTACTS

+34675048819

alonso.isidoro@gmail.com

Badajoz

WEBSITES & SOCIAL LINKS

Github:
http://GitHub.com/alonsoir

StackoverflowUser:
https://stackoverflow.com/users/4439/alonsoir

Twitter:
http://twitter.com/alonsoir

Github Showcase:
https://www.gitshowcase.com/alonsoir/profile

Blog
http://alonsoroman.wordpress.com

LinkedIn:
https://www.linkedin.com/in/alonsoisidororoman-8a62/

About me:
https://about.me/alonsoir/work?promo=geniusbar

SKILLS

- Java
- Spring Framework
- Hibernate/JPA
- Junit testing
- Maven
- Jenkins
- Jetkins
- Jenkins
- Selenium
- Scala
- Akka
- Apache software projects
- GNU/Linux
- Bash scripting
- Python
- Design patterns

LANGUAGES

- Spanish
- English

ABOUT ME

A software engineer, eternal learner, timelessly curious. I love science, all of them, but particularly particle physics, astrophysics and everything related to how to use technology to improve health, quality of life and productivity.

I also love arts and artist from renaissance movement, (Leonardo, Michelangelo, 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 in NASA, in the Ames Research Center, in Silicon Valley, contributing in a system of recommendation to the biomedical 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.

Performance-driven quality assurance test professional with project management experience. Effective at providing innovative solutions for issues to ensure delivery of optimal products. Seeking a role in the IT industry executing test cases and driving defect resolution.
Deadline-driven.
Detail-oriented.
Performance driven
Customer focused
Creative
Strong
Collaborative
Experienced Facility Technician with proven ability to work independently and multiple projects at once.
Disciplined
Reliable
Focused
Resourceful
Adaptable
Pragmatic

WORK EXPERIENCE

Software architect/Data Engineer. Stratio. Madrid
Sep 2017 - 2018

I participate in the design and development of a project to NOS (NOS Operadoras). Using Spark/Spark streaming and Elasticsearch to calculate microservices architecture to be able to perform Extract Transform and load data from Kafka to Elasticsearch. Also I did a study of the Elasticsearch database. Elasticsearch is used by a relevant company in the telecommunications sector, get the best possible referral based on what the colleagues know about them. The idea is to design a scalable distributed architecture of data ingestion following the DGRS 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 architecture and managed with Mesos Marathon, the Orchestrator pattern to manage the distributed transactionality inherent to each of the microservices composing the system. Also I did a study of different algorithms machine learning and deep learning and me built this architecture, in general the best possible recommendations to the students of the university. Iwas in charge of designing and implementing the whole architecture and my fellow data scientists in the selection of deep learning algorithms and implementation of the different algorithms for classification.

I am using java, spring-boot, spring-cloud technologies like Eureka, Ribbon, Feign, Docker, Mesos, kafka,and a distributed postgresql port developed by Stratio.

Research and development. Stratio. Badajoz
Jul 2016 - Jan 2018

In my spare time or while we were waiting for another provider to finish their work, I was in charge of R&D work for Stratio, developed some open source small projects.

An scalable event-oriented recommendation engines based on apache spark deep learning algorithms, using kafka as an event engine, mongodb as a persistence layer and finally a web application to show the results. I made all of ags 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 objects using the Lomb-Scargle algorithm. The type of stars allows you to create a route in interstellar space.
https://github.com/alonsoir/demo-dsg
I have also been researching the use of apk deeplearning for facial recognition.
https://github.com/alonsoir/Facerecognition
A scalable architecture for cryptocurrencies microservices in order to periodically interrogate the bitcoin quote and make it available for multiple suitable requests. I used java, spring-boot, elastic-search and kafka.
https://github.com/alonsoir/demo-kafka-elastic
Bitcoin price prediction using machine learning.
Also I have been working during the end of the year on a project to try to find out the numbers of the eurominitions and the primitive, with little success but very useful because it has allowed me to work with the functional style of the spc stream that appeared with the jdk8.
https://github.com/alonsoir/Euromillones-Kafka-Streams-of-the-Pack
Publishing house, both the text and the code.
https://github.com/alonsoir/KafkaStreaming

Big Data engineer. Keedio. Madrid
Nov 2016 - May 2017

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 to the systemic banks too big to fail, Basilea 4.
The idea is to process multiple sources of unstructured data to finally arrive at a unique model of risk. The idea is to be able to process the data coming from a variety of companies, such as Santander Spain and Santander Kafka for the raw data index in a non-formal in the banking zone of the data lake, then we have a series of engines in charge of the consolidation of the avro files. In other formal, prepare, which would then be exploited in the form of Hive tables in the formal area of the data lake. Finally, we have a series of engines in the architecture, interpreted engines and raw creation engines that are also used for a Lost phase where we finally create 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 the project was to create a utility to create files parquets, validation, correction in case of error, parts of the apc, as a set of works spark to validate quantitatively and qualitatively the data received and delivered. In other words, a method to check that the software is correct, doing the calculations correctly, applying mechanisms designed by the mathematicians.

I develop too the part of apc 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, sideline.

Finally I was also in charge of integrating the software in the place of explotation chosen by the Bank.

Big Data Engineer. Myself/Training, Badajoz
Feb 2016 - Nov 2016

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 this training, I have written a couple of projects, one in github to beat hawks in memory time using spark kafka, apache spark and hadoop and another one to try to predict the price of bitcoin using machine learning, how to implement machine learning algorithms in the Spark ML or 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-Kafkestrel-Hadoop
https://github.com/alonsoir/Bitcoin-price-prediction-using-spark
https://github.com/alonsoir/awesome-recommendation-engine

Big Data Architect. Synergic Partners, Madrid
Nov 2015 - Feb 2016

My task is to design big data architectures for different clients of 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 Iberia Investment. La Vanguardia, as well as maintaining the training cluster we have in the company. I have developed a Hadoop Ecosystem, Spark and Spark Streaming and big data programming skills with BigDataUniversity.com in my free time.

Big Data Engineer. Tektronix, Madrid
Sep 2014 - Jan 2015

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 functional. Kind of telecommunications optical fiber or a fiber 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 SGB, engines, and a tool similar to Kafka for transmitting the information in real time from the different components of the architecture, in which there are a series of which Apache Spark is used to calculate the noise in each of the layers of the tree.

The related technologies are Java2 apache spark,Apache Camel, Apache Impala, Hadoop, Spark, Maven, postgresql and GNU / linux

Big Data Engineer. Myself/Training, Badajoz
Jan 2014 - Jul 2014

I have developed a some proofs of concepts related with: map reduce task using hadoop ecosystem, Apache Spark, Apache Kafka and big data programming skills with BigDataUniversity.com in my free time.

Big Data Engineer. Telefónica, Madrid
Sep 2013 - Dec 2013

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Software Engineer. Naevatec/Kurento, Madrid
Aug 2012 - Jan 2014

I developed the core of a set of restfull web services for a whatsapp type application, called Kwhatsapp, using the Kurento platform, Apache Tomcat, The Technology was a mix of java 1.7 using "spring", Hibernate and many jars for the java core and objective 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.
The service is deployed and ready to use for the Hospital Nino Jesus from Madrid http://www.madrid.org/hos_ninojesus/
programa=movil&seccion=Noticias&idioma=1

Partner and CTO. Jorge Calvo Law office. Badajoz
Jan 2013 - Aug 2013

I developed a project for incubatrice the process of creating demand on internet and improvement of the current tenants of a neighboring community on rural. I used opensuse framework.

CEO/CTO, Smartbuyer. Badajoz
Jul 2010 - Dec 2011

I built an IOSs based application that makes heavy use of geo-location and consumption of Web services. After 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 side. On the server side, the technologies used are the Microsoft Windows Server 2008 R2 and the .NET framework 3.5 SP1 C# as a mechanism for exchange of information. HttpWebRequest/HttpWebResponse, in which to save the customer information, items to sale and the accounting entries from the sale of items. - a thread engine to listen for the consultation request and / or updates on the Web. Alternative as a persistence and MYSQL database. The application was implemented to upload the information with a NON SQL connector like spring-data-project.

Software engineer. ATSistemas/Ocaso Insurance. Madrid
Jan 2010 - Jun 2013

I implemented operational functionality, such as Reinsurance, Deposit management legal advice.
The technology used is Spring MVC, ajax, hibernate, Rational, Weboshere 2 jquery, prototype, WAS7, jdk1.6, Oracle Weblogic 10.0 Patch 2007re. Oracle database 10g, Oracle Forms 10g, Oracle Reports 10g. I was in charge to develop the electronic aquisition, I used a Framework based on the model's own Spring MVC, Spring WebFlow, Hibernate, ajax and use of caches, specifically EhCache.

Software engineer. ATSistemas/ING, Madrid
Sep 2010 - Dec 2010

My job was to tune and customize Adminisa Comunity Edition in a production environment so that the client could store their web pages, content authoritively if system crash. This feature does not have the community version and asked me to do it and I did it using the Apache Tomcat.
The solution was a mixture of both shell scripts, Cron and modification from sources project from Adminisa.

Software Engineer. ATSistemas/Peugeot, Madrid
Jul 2010 - Sep 2010

My job was to design and implement a catalog of business services related to how quality management is performed at their factories. The project involved drafting a quality report indicating weak points and improvements in architecture.
The technologies used - Spring Framework, namely Spring.DBC for the persistence layer, jree services that have injected the dangers.
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 implentation Sun's Java Message Services to let persistency over the data.
I to perform file quality and performance report i relied on the use of the tools Google Page Speed and Yslow.

Software engineer. Sadiel/SES, Merida
Oct 2009 - Jan 2010

A project for the Department of Health and dependence to define a computerized system for the management of the services and its stakeholders in development teams. The project took off as mades, is based on a framework of the Junta de Andalucia.
http://www.juntadeandalucia.es/salud/sci/sci/view/MAQDE.jsf

Systems Engineer. Altem/Loreal, Madrid
Mar 2009 - May 2009

I performed the installation and configuration of about 60 machines with their OS and office suites, as well as individual configuration.

Software Engineer. Altem/CECA, Madrid
Jan 2009 - Mar 2009

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 performance issues

Software Engineer. Altem/Fragosa, Madrid
Nov 2008 - Dec 2008

Telemetric project for a Wage Warranty Fund.
Technology used: Microsoft Windows Server 2003 by adding a series of web services that provide electronic signature with qualified manufacturers coin and stamp. (.Net) http://www.fmi.es/

Software Engineer. Altem/Telefónica, Madrid
May 2008 - Nov 2008

Technology consultant, research and development, testing, technical leadership.
Project e-marketplace Telefónica R & D. In this project I work as a consultant, especially much R & D to design and implement an SOA architecture based on Web services. I used the Apache Tomcat server, Axis2 Apache, Rational Suite from IBM, as well as its management interface, web services, and integration of different access databases, in addition to better knowledge of English because I had to work closely with IBM consultants foreigners.

Software engineer. Altem/Yell Spain, Madrid
Aug 2007 - Aug 2008

Consultant, Developer, R&D.
Implementation of several J2EE based SOA architectures for use in a new version of the website of the yellow pages and white pages.
www.paginasamarillas.es
R & D - Enhancements and fixes.

Software engineer. Indra/AVIVA, Badajoz
Nov 2006 - Jul 2007

Developer, R&D and testing.
Builder project / implementation of foundations of proprietary architecture based on Microsoft technology for the Spanish insurance company.
In this project I work on technical design and implementation of a number of cases of end user applications for AVIVA, assurance business.
NYREN.INI

http://www.aviva.es/es/corporativo/ http://www.aviva.es/es/corporativo/ Indra software labs, Badajoz, Badajoz, Spain.

Software engineer. Indra/Red Eléctrica de España, Badajoz
Oct 2006 - Nov 2006

Developer, testing.
Project Telecontrol Spanish Electricity Network http://www.ree.es/
Users Maintenance DMA integrated proprietary system.
Indra software labs, Badajoz, Badajoz, Spain.

Software Engineer. Indra/AMAIA*, Badajoz
Jun 2006 - Oct 2006

Develop with Infra 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.
Indra software labs, Badajoz, Badajoz, Spain.
http://www.amaia.com/

Software Engineer. Indra, Badajoz
May 2006 - Jun 2006

B & B Java Server Faces, Java Studio Creator 2, we made a port of a use case STRIDA, a JSF project.

Software Engineer. Indra, Badajoz
Feb 2006 - May 2006

VITAGE Project. Securities and investment funds.
Data base admin. JDB, Lotus.

Software Engineer. Telamon/BermudaMur, Madrid
Oct 2005 - Jan 2006

Analyst, Developer.
Project Tarifa Plana. System user multi user management.
And Bermudaa customers http://www.bermudamur.es/ medical assurance.

Software Engineer. Siconet/MAPFRE, Madrid
Mar 2005 - Oct 2005

Programmer Analyst Jr
Project ST-CAT (Motor System for Territorial Administrative Centers).
Multi entry for the management and treatment of collections of offices and workplaces across the national network of Mapfre Mutual.
Technologies: Java/J2EE, Oracle.
Technologies: Java/J2EE, JSP, JDBC, Servlets, JavaBeans, EJB, XML, XSL, ECLIPSE, WSAD, UML, Architecture mapfre version 2.

Software Engineer. Area 10, Badajoz
Sep 2004 - Feb 2005

Developer
Development of a range of applications in visual basic 6 with their design of databases on Access6, a complete application for inventory control and another to consult on the set of distance learning centers throughout Spain.
Technologies: Microsoft Visual Basic 6, ADO, Crystal Reports, Microsoft Access. In ego formal and insert them into an DB in Access 2k and other MySQL DB. The other application was to extract data from the databases and generate a zip. Maintenance and expansion of the website http://www.area10.es/
www.area10.es, developed with jsp, html, css, javascript and mysql.

EDUCATION

Ingeniería técnica informática de sistemas. Polytechnic School of Cáceres. Cáceres. Spain
2004

- Masters: Java/J2EE-Oracle-UML-TSQL-Visual Fireboard
- Specialized Coursework Advanced Java Programming Course (40 hours.
- Web Services Programming Course (50 hours) IOS 5 course (50 hours) PHP, JAVASCRIPT, HTML (50 hours)
- Introduction to MapReduce Programming, with Glen Mules and Warren Pettit. BigDataUniversity.com (40 hours)
- Hadoop Fundamentals I - Version 2 with Keith McDonald, Ahmad El Ghazaly, Bradley Stoughton, Carlos Rentería
- BigDataUniversity.com Sql hours1 - Stream Computing 1, with Martin Segerstrom, Robert Uleman, Anjali Agarwal, Rachit Arora.
- BigDataUniversity.com: sql hours1 - Introduction to Scala, with Jamie Allen, BigDataUniversity.com (40 hours)
- Machine Learning Course, from Andrew Ng. Stanford College. Coursera.org (40 hours first finished yet.
- Master Big Data Expert, from Fernando Agudo Tarancon. formacionhadoop.com (50 hours) Finished

HOBBIES

Sciences, Videogames, reading sci-fi, graphic novels, tv series, cine, quality time with family and friends.

REVIEWER

text and code reviewer of a book on Kafka Stream for Packt Publishing. Pending release. Badajoz
Oct 2019 - Jan 2020

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.