



Jonathan Ruiz
Software Engineer @ Bitbridge

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Nationality Spanish

Date of birth May 12, 1979

ABOUT

I am a Software Engineer with over 20 years experience developing applications, the infrastructure to support them, automating system administration tasks and migrating infrastructure and workflows to new paradigms and platforms.

EXPERIENCE



Feb 2020-Aug 2020/ Full stack developer (7 months)

Healthcare Information System (HIS)

The project goal was to develop a HIS to compete against players like HP, with their well established solution HCIS. We joined the ongoing project as specialists when they already had some instances in production, our mission was to help the team and improve their chances of reaching the deadlines.

Project owner application information page:

<https://alfatecsistemas.es/en/solutions/sina-suite-his-ehr/>

JAVA, Spring, Angular

Jun 2019-Jan 2020/ Lead C++ developer (8 Months)

Intelligent Traffic Systems

The client needed to update their ITS in order to be able to fulfill the market demands. The main goal at this stage was to re-factorize the system core built on C++ for windows only and make it work also on Linux by using cross platform libraries like Boost.

Press articles about the software application:

- <https://bit.ly/2Z11mgC>
- <https://bit.ly/30AVGva>

C++, Qt, Cmake, visual studio 2015, virtualbox, linux, windows, docker



Apr 2019-May 2019 / Lead react native developer (2 Months)

Audio recording Mobile App

Startup which objective was to develop an interesting mobile base service. In order to reduce development cost while keeping the possibility to publish in both main mobile platforms, react native was chosen to build this app. We had to start with react native from scratch, but we could start building components the very first day due to the abundance of documentation and on-line support.

JavaScript, CSS, React, Express.js

Mar 2019-Apr 2019 / Lead Angular developer (2 Months)

OCR scanning Mobile App

The client approached us requesting budget for an app to scan, store and manage data from businesses cards. In order to prove the speed and validity of our tech stack for this particular project, we developed the application without any payment in advance nor compromise. The cost of development and maintenance is now considerably lower mainly due to having a unique version of the code for both major platforms, Android and iOS.

Nativescript, angular, JavaScript, CSS, Express.js

Aug 2018-Mar 2019 / Lead full stack developer (8 months)

Progressive Web App development

Our client's app was banned from App Store and needed an alternative way to publish it, using responsive HTML and the mobile browser version was not enough because we needed to access the mobile bluetooth stack, and not all browsers had implemented the API to do so. Our proposal to keep native app like appearance and functionality in iOS, was to use a combination of PWA and to build a secondary native app which goal was to play PWAs that needed bluetooth API access.

VUE, webbluetooth, express.js, websockets

Apr 2018-Aug 2018 / iOS lead developer (5 months)

IOS native Mobile App development

The company needed this app to be able to play PWA on iOS devices, originally this was a task that was being developed by a contractor, that could not deliver the product. I was asked for help for the project and the app was published fulfilling all the requirements and allowed me to keep working in the next stage of the project, a PWA app.

Swift, Xcode, webbluetooth

Jan 2018-Apr 2018 / Lead C++ developer (4 months)

Device Firmware development

As part of my previous task prototyping on Raspberry with different wireless technologies, the company found interesting to implement NFC in the real device and they trusted me with the task. We implemented different NFC usages, like data exchange, reader, receiver and Bluetooth connection handler.

C++, Keil, ARM, Bluetooth 4.1

Jun 2017-Jan 2018 / Lead python Developer (8 months)

IoT Device prototyping

Our client was looking for the best way of transmitting information to a remote server from a device which was connected through bluetooth to a mobile without a native app installed in it. Our main task was to try different technologies (most of them in ongoing development and not yet published) that could have the potential for solving this issue. As a result of our job, the company filled two patents requests to protect the way we used different combined technologies to accomplish the objectives they had. Our prototyping platform was based on Raspberry PI, where we tested with others technologies like NFC, GSM, Narrowband, 6LowPAN and regular TCP/IP internet sharing.

Python, NFC, GSM, 6LowPAN, IoT, bluetooth

Jun 2015-Jun 2017 / Lead Devops (2 years)

E-Commerce platform automation and maintenance

Due to the success of the platform migration, it was planned to deploy it in several regions and we were told to design an agile workflow based on Git and atlassian tools like Jira, Bamboo, etc. We also had to implement the CI/CD system and to create a reporting, backup and disaster recovery processes to comply with ISO standards.

Ansible, docker, (Atlassian) GIT/Bitbucket, Bamboo, Jira, Ansible, PHPUnit, PHING, Bash, Azure, Linux, Apache, Mysql Galera, Magento, Nagios, Newrelic, Siege

Jan 2015-Jun 2015 / Lead devops (6 months)

E-Commerce - Platform Migration

Once the platform design was approved, the company bought another business with an ongoing e-commerce platform on premises. We were assigned the task to migrate the application, database and domain to my cloud based design on Azure and HA MySQL Galera database cluster. The migration went smooth with virtually no down time thanks to the preparation and utilization of data and files synchronization techniques like Mysql replication in conjunction with some crafted bash scripts and rsync.

Ansible, docker, Bash, Azure, Linux, Apache, Mysql Galera, Magento

Aug 2014-Jan 2015 / Cloud architect (6 months)

E-Commerce cloud platform design

I was initially hired for the challenge of designing an e-commerce platform on Azure, a fast changing cloud hosting provider by Microsoft. I was able to see new services and features appearing on weekly basis.

This design had to be flexible, it could be deployed as single instance for all the regions or one instance per region. Mainly due to legal reasons, the second option was chosen. Main requirements I had to cover were: security, disaster recovery, backup, high availability, optimization, ensure solution and operations reliability.

Azure, REDIS, Linux, Magento, High Availability



Dec 2013-May 2014 / Lead full stack developer (6 months)

P2B lending platform

The company had already a P2P lending platform, Lendico. Their goal was to take advantage of that and to develop another lending platform using what they already had as active base, this time P2B. I was the first member of the team to join the project which in matter of 2 months had 10 developers working on it. My initial tasks were to review and try to get the most of the code we already had from Lendico. It was written in PHP using Symfony and Bootstrap for CSS. After the first assessments, I started coding mainly Symfony/PHP, JQuery, Bootstrap, and later on I implemented the CI/CD workflow with Puppet and Jenkins. The project successfully finished in 6 months and was deployed in several European countries, like Poland, Germany and Spain.

Puppet, Jenkins, AWS, Linux, symfony, Linux, MySQL, Bootstrap, JavaScript/JQuery



May 2013-Dec 2013 / Lead android developer (7 months)

Android Application development

After finishing the backend, frontend and rest service of the web application, the company offered me to work in the development of the Android application, which I gladly accepted. The application was published and very successful.

Android, Java

Dec 2012-May 2013 / Lead full stack developer (6 months)

Development of a promotional site providing exclusive offers and coupons to Movistar clients

In this project, I had to develop a platform where Movistar users could have access to exclusive offers provided by Movistar partners. I needed to deliver a portal where users could login using SAML single sign on system and show them a list of offers/discounts. In addition, I needed to deliver a REST Service which was used afterwards by a mobile app. This was developed using Symfony and JQuery.

Symfony, Linux, Apache, MySQL, SAML, Nginx (proxy), AWS

Jun 2012-Dec 2012 / Lead Software Engineer (6 months)

Automatic knowledge generation from OWL

This time, the goal was to collect data/knowledge from different sources on the internet and merge it together to create new knowledge, enriching the Ontologies content. I developed the algorithm to establish unknown third relationships between the collected data based on already known relationships in JAVA and the webcrawler in Python.

Java, Python, OWL, Web Crawling

Dec 2010-Jun 2011 / Lead C++ Developer (7 months)

Location of objects from stereoscopic images

My task consisted in developing tools and algorithms to distinguish and locate objects in the Cartesian space relative to the humanoid robot position by using stereoscopic images streamed from forefront cameras. I used C++, ROS, OpenCV and QT to develop the UI and different algorithms to allow the robot locate and point to objects.

C++, Opencv, ROS, QT



Jun 2010-Dec 2010/ Lead JAVA developer (6 months)

Development of an application for guided Surgery and 3D DICOM images manipulation

Development of a dental surgery planning desktop application based on the use of DICOM images to generate a 3D volume where the surgeon could set the drill coordinates among others tasks. Those coordinates were later passed to a robotic arm which would create a template to help the surgeon in the final operation. In this project, I used JAVA Swing to build the interface and VTK/ITK and OpenCV to perform image manipulation and mathematical transformations. This app had some alignment and projection features that were not available in other products back then and was used in Barcelona's odontology school as an example of cutting edge tools to perform dental surgery.

Java, VTK/ITK, OpenCV, DICOM

May 2010-Jun 2010 / Lead ++ developer (2 months)

Robotics - Robotic arm program loader

Development of a tool to read and transform coordinates and then load them in a robotic arm to drill wholes in a dental template which would be used later for dental surgery. This software was done in C++ for windows.

C++, Mitsubishi Robotic arm

overon

Jun 2009-Feb 2010 / Full stack developer (8 months)

Intranet web application development

I developed Intranet applications to manage internal projects, orders, and ticketing using PHP. I also implemented a Backup system using Bakula and created bash scripts to support the mail service maintenance.

PHP , Linux, Apache, MySQL, Bakula, Postfix



Mar 2009-Jun 2009 / Lead full stack developer (3 months)

OnLine Education - Web & Content Management System development

The project I was offered was to build a CMS for a museum website. The project was already delayed and the work done until then was not usable, so I offered to use a CMS I was building as a side project and they accepted. During my time in the project, I improved and polished the CMS which was developed in PHP and used MySQL to storage data. The project was finally deployed successfully after 3 months.

Linux, Apache, MySQL, PHP, Bakula, Postfix



Mar 2008-Feb 2009 / Full Stack Developer (1 year)

E-commerce - Web & Content Management System development

During my time here, I developed multiple E-Commerce sites and Branding pages using PHP and the company's CMS. I mainly used PHP, JavaScript and CSS for this. I was also assigned some system administration tasks like Apache tuning and forensic analysis.

Linux, Apache, MySQL, PHP, HTML, CSS



Jun 2002-Nov 2007 / Full Stack Developer & System administrator (5 years and 6 months)

Aerospace - Full Stack Development

- Development of Internal client/server applications to manage orders.
- On-line web applications to manage NCR (Non Conformance Reports) for international EADS Space projects.
- Autoclave's management desktop application.
- CNC program loader. On premise Linux servers administration (Apache).

Linux, Apache, MySQL, PHP, SCADA, Visual Basic, Java.

EDUCATION



COMPUTER SCIENCE ENGINEERING University Degree

Universidad Jaume I,
Avenida de Vicent Sos Baynat, s/n,
12071 Castellón, España

LANGUAGES

Mother tongue **Spanish**

Foreign languages **English**