



**Jonathan Ruiz**  
Software Engineer @ BitHeater

<b>Address</b>	Wimbledon, SW19, London
<b>Telephone</b>	+44 7754 218 610
<b>Email</b>	contact@jonathanruiz.co.uk
<b>Nationality</b>	Spanish
<b>Date of birth</b>	May 12, 1979

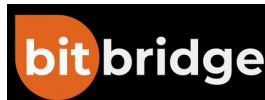
## ABOUT

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

## EXPERIENCE

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*May 2019-Today / C++ Developer*

### Intelligent Traffic Systems

The company needs to update their ITS in order to be able to fulfill the market demands, the main goal at this stage is to re-factorize the system core built on C++ for windows only, and make it work also in Linux by using cross platform libraries like boost. Originally my role in this project was DevOps, and my task to prepare the integration with Kubernetes, because I had also experience with C++ and was harder for them to find C++ developers for this critical task, my role was changed right from the very beginning. Press articles about this software application:

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

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

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*Apr 2019-May 2019 / React Native Developer (2 Months)*

### Audio recording mobile app

Single owner startup which objective is 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. I had to start with react native from scratch, but I could start to build components the very first day due to the abundance of documentation and support on-line. The stack holder of the startup has put the development in standby while he is looking for more investors, before publishing it.

**JavaScript, CSS, React, Express.js**

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*Mar 2019-Apr 2019 / 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 I developed the application without any payment in advance nor compromise. The client will benefit of a single code version of the application working in both major mobile platforms, Android and iOS, in addition the cost of development and maintenance is considerably lower.

**Nativescript, angular, JavaScript, CSS, Express.js**

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## *Aug 2018-Mar 2019 / Lead Full Stack Developer (8 months)*

### **Progressive Web App development**

My client app was banned from AppStore and needed an alternative way to publish it, using responsive html wasn't enough because we needed to access to the mobile bluetooth stack, native like functionalities, and not all browsers has implemented the API to do so, safari for mobile is an example of this. My proposal to keep App like appearance and functionality in iOS, was to use a combination of PWA and a native app which goal was to play PWAs which needed bluetooth API access.

**VUE, webbluetooth, express.js, websockets**

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## *Apr 2018-Aug 2018 / iOS 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 which was being developed by a contractor under my supervision, the performance of the contractor was close to 0 not being able to deliver an app listing a simple list of Bluetooth devices after 2 months. I tested myself using swift and Xcode and offered myself to do the task, which eventually saved money and time to my client. 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**

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## *Jan 2018-Apr 2018 / C++ Developer (4 months)*

### **Device firmware development**

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

**C++, Keil, ARM, Bluetooth 4.1**

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## *Jun 2017-Jan 2018 / Python Developer (8 months)*

### **IoT Device prototyping**

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

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

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## *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 I was told to design an agile workflow based on git, implement a 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**

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## *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. I was assigned the task to migrate the application, database and domain to my cloud based design on Azure. 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**

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## *Aug 2014-Jan 2015 / Cloud Architect (6 months)*

### **E-Commerce cloud platform design**

I was initially hired with the challenge of designing an e-commerce platform on Azure, a fast changing cloud hosting provider by Microsoft, I could see new services and features appearing in weekly basis. It had to be a flexible design as it could be single instance for all the regions or maybe one instance per region as finally was the case due to legal reasons mainly. Main topics I had to cover were: Security, Disaster Recovery, Backup, High Availability, Optimization, Ensure solution and operations reliability.

**Azure, REDIS, Linux, Magento, High Availability**

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## *Dec 2013-May 2014 / 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, this time P2B instead. 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 was also implementing CI/CD with puppet and Jenkins. The project successfully finished in 6 months and was deployed in several European countries, like Poland, Germany, Spain, etc.

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

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## *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 offer me to work in the development of the android application, which I accepted gladly. The application was published and was very successful.

**Android, Java**

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## *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 will be used later by a mobile app. This was developed using Symfony and Jquery.

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

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## *Jun 2012-Dec 2012 / Software Engineer (6 months)*

### **Automatic knowledge generation from OWL**

I could work in this project thanks to the trust the responsible of it had in my because my previous collaborations with them in other projects also in the Investigation frame. In this occasion the goal was to collect data/knowledge from different sources on the internet and merge it together to create new knowledge, increasing the content of the Ontologies.

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**

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

**Location of objects from stereoscopic images**

My tasks consisted in the development of 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 algorithms to allow the robot locate and point to objects.

**C++, opencv, ROS, QT**

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*Jun 2010-Dec 2010/ 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 utilization 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 will 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 not available from others back then and was used in Barcelona's odontology school because as example of revolutionary tools to perform dental surgery.

**Java, VTK/ITK, OpenCV, DICOM**

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*May 2010-Jun 2010 / C++ 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**

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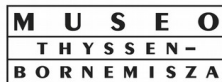
*Jun 2009-Feb 2010 / Full stack developer (8 months)*

**Intranet web application development**

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

**PHP , Linux, Apache, MySQL, Bakula, Postfix**

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*Mar 2009-Jun 2009 / 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 al ready delayed and the work done till then wasn't 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 polish 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**

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**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 Brand pages development using PHP and the company own CMS. I used mainly PHP, JavaScript, CSS for this. I was assigned too system administration tasks like Apache tuning, forensic analysis, among others.

**Linux, Apache, MySQL, PHP, HTML, CSS**

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**Jun 2002-Nov 2007 / Full Stack Developer & SysAdmin (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.**

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EDUCATION

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**COMPUTER SCIENCE ENGINEERING University Degree**

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

LANGUAGES

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**Mother tongue**      **Spanish**  
**Foreign languages**      **English**