

Jesus Bianco (Toronto, Ontario - Madrid, Spain)

Application Architect, team lead, Java-PHP-Swift senior developer, DevOps and DBA.

Highly motivated geek, with plenty of leadership skills and passion to bring to the table.

I have an app on Apple's App Store (iOS) called: 8BallTracker

I am Canadian and Italian citizen. I am incorporated since 2012 in Ontario, Canada.

This resume was updated in February 2021, get an updated copy of this resume online

on Microsoft Word format: <http://yisu.net/resume.doc>

or on Adobe PDF: <http://yisu.net/resume.pdf>

E-Mail: jmbianco@yisu.net

Languages: Spanish, English, and basic knowledge of French

Located: Madrid, Spain

I have solid experience in architecture of applications/solutions and Internet content development. I have led groups of developers, teams made up between 2 to 9 people. I have strong working experience with Web: frontend and backend, application frameworks, AES and RSA Encryption, SDKs, web services / micro services, RESTful APIs, relational databases and document-oriented databases using single node server and clusters. I have worked with message queues, e-commerce, home banking and payment systems, transaction management systems, firewalls, remote connectivity and network routing, virtual private networks, automated provisioning, Dockerization of applications, dynamic deployments and orchestration. With knowledge of servers and workstations: UNIX/Linux, Apple macOS, Microsoft Windows, and System i (aka AS/400). Close to 30 years of experience in software engineering.

I have developed complex and efficient information systems running on Intranets and Internet. In the Era of Internet of things (IoT) I am familiar with Raspberry Pi(s) and BeagleBone(s). Adding Wi-Fi hotspot, Bluetooth LE, 4G and GPS support to be used on automobile (cars).

I have worked with different vendors of MySQL and Mongo as DBA. I have a vast knowledge and experience of Virtualization, performing tune-ups on high traffic websites, backends, frontends and databases when performance is crucial for the daily operations of the business. Setup CI/CD to deploy from a commit to the Apple App Store / TestFlight builds.

Education:

Computer Science bachelor's degree. December 1999. Top 5 of the class (Class of 60 students).

Instituto Universitario de Nuevas Profesiones, Caracas - Venezuela

Courses:

1) Fundamentals of the Java Programming Language (SL-110), February 2005.

2) Java Programming Language (SL-275), March 2005. Sun Microsystems, Caracas - Venezuela

My full resume can be over 9 pages long, I am listing on this one the 2010-2021 years to keep it short, for the list of old my experiences/jobs, download the full resume online, non-recently updated:

on Microsoft Word: <http://yisu.net/full.doc>

on Adobe PDF: <http://yisu.net/full.pdf>

References will be provided upon request and after job interviews.

Some of the technologies I have worked with over the years:

Java/J2EE, frameworks and Application Servers	First time used	Average years, levels of proficiency
Java 1.3 - 1.8, Java v8, v11, GraalVM Native binaries	2005	15 years (Advanced)
Spring Boot (2017) Spring JDBC, Spring MVC (2011)	2017 / 2011	> 4 years (Advanced)
Gradle v4.x and v5.x, the Gradle Wrapper	2017	> 2 years (Advanced)
Apache Tomcat App Server, 6.x - 9.x	2007	7 years (Advanced)
IBM WebSphere App Server, 5.x - 7.x	2007	3 years (Advanced)
Apache GlassFish App Server, 3.x - 4.x	2013	2 years (Advanced)
JBoss/ WildFly Application Server, HornetQ,	2015	> 2 year (Advanced)
JBoss Keycloak - single sign-on, identity management	2019	> 6 months (Intermediate/ Advanced)
Apache Ant & Apache Maven	2006	4 years (Advanced)
Hibernate ORM Framework: 3.x, 4.x, 5.x	2011	2 years (Intermediate/Advanced)
Thymeleaf Java template engine	2017	> 1.5 year (Advanced)
Java Server Faces (JSF), 2.x, PrimeFaces 3.x/4.x	2013	1 year (Intermediate)

PHP technologies and frameworks	First time used	Average years, levels of proficiency
PHP versions 3.x, 4.x, 5.x and 7.x	2000	> 17 years (Advanced)
PHP Slim 3 Framework	2016	> 1.5 year (Advanced)
PHP Symfony Framework 1.x-3.x	2009	2 years (Advanced)
PHP CodeIgniter, Modular Extensions (HMVC)	2013	2 years (Advanced)
Zend PHP Framework,	2015	1 year (Intermediate)
Yii Framework	2015	> 1 year (Advanced)

Relational databases	First time used	Average years, levels of proficiency
MySQL 3.x, 4.x, 5.x (DBA on all platforms)	2000	> 18 years (Advanced)
MySQL Cluster 7.x in-memory database.	2018	> 1 year (Intermediate/ Advanced)
Percona's MySQL XtraDB and Mongo ReplicaSets	2016	> 3 years (Advanced)
PostgreSQL 8.x-13x (Admin on Linux & MacOS)	2007	> 4 years (Advanced)
Oracle Database 8.x, 9.x, 10.x (Admin on Linux)	2006	> 4 years (Advanced)
IBM DB2 10.x (Admin on System i)	2011	> 2 years (Advanced)

Frontend technologies	First time used	Average years, levels of proficiency
HTML 3.2, 4.x and HTML 5	1995	> 20 years (Advanced)
VueJS v2, Angular v2, NodeJS, PM2, Yarn, Ionic	2019	> 1 year (Intermediate/ Advanced)
Bootstrap Framework 3.x, 4.x, 5.x	2016	> 1 year (Intermediate/Advanced)
JavaScript	1996	> 10 years (Advanced)
Cascading Style Sheets/CSS, 2.x, 3.x	2004	> 10 years (Advanced)
jQuery, jQuery UI, Ajax and JSON, XML	2009	> 8 years (Advanced)

Relevant technologies	First time used	Average years of experience
Hasura GraphQL Engine	2020	1 year (Intermediate/Advanced)
Apple's Swift, versions from v1 to v5.	2015	> 3 years (Advanced)
Apple Xcode, Storyboard, Auto-Layout, CocoaPods	2015	> 3 years (Advanced)
BitBucket, Bamboo, Jira and Confluence servers	2016	> 2.5 years (Advanced)
LINUX (Ubuntu, Debian, Red Hat, CentOS, Fedora)	1996	> 20 years (Advanced)
Store Procedures, Functions (PL-SQL, SQL PL)	2005	> 6 years (Advanced)
Eclipse Mosquitto and Erlang MQTT Broker (MQTT)	2017	> 1 year (Advanced)
GIT (VCS), Large File Storage (GIT LFS)	2013	> 3 years (Advanced)
VirtualBox, vmWare ESXi, KVM (Virtualization)	2006	> 10 years (Advanced)
Ansible (automation engine), version 2.x	2016	1 year (Advanced)
Docker, Docker compose/Swarm, building images	2017	2.5 years (Advanced)
Kubernetes (K8s), Ingress, Rancher	2017	> 1.5 year (Intermediate/Advanced)
Jenkins automation server	2016	1.5 year (Advanced)
Vagrant, version 1.7 – 1.9.x	2016	>1 year (Advanced)

Work experience:

Company: Alert Driving / Fleet Defense

Title: Application Architect, team lead, senior developer and Dev Ops.

January 2019 - Present (Contract role)

<https://www.fleetdefense.com/> and <http://www.alertdriving.com/> (over 60 people)

The company has run for nearly 20 years, it has used a vast number of technologies, multiples solutions, software and database engines, around 10 applications we use on the daily basis. I have dockerized all the applications we used. The technologies of those applications include: Java/J2EE SpringBoot/JDBC, Hikari Connection Pool, Keycloak and enterprise service bus (ESB), Hasura GraphQL Engine v1.x, PHP v5.6 and v7, NodeJS v8-v12; Percona's XtraDB Cluster "MySQL", Percona's MongoDB repliaSet, and PostgreSQL v12-v13. I have been implementing some best practices to improve the development process, QA testing and deployments, introducing to the company the power of CI/CD, using tools like Docker/Docker Swarm, Harbor, Jenkins, Bamboo. One important software the companies uses is HT2 Labs' Learning Locker; I was able to migrate the Learning Record Store "LRS" software tuning up Mongo's ReplicaSet, upgrading the NodeJS application and creating a proprietary Docker image of the software. I have planned and created Jenkins jobs to refresh databases, daily backups, re-setup of Master-Slave databases when nodes get desynchronized. I have improved the sanitization of production data "removing sensitive information" to be exposed/used on QAs environments and development. I have setup from scratch BitBucket, Bamboo, Jira, Confluence servers on-prem. I setup CI/CD to build the web and mobile applications, create Docker images, push to Harbor registry, build iOS and Android Apps and upload the builds to the Apps Stores, prepare the ground for QA, using TestFlight. I have taken care of databases, tunning-up and setting permissions to guarantee a more secure and productive environment. Helping the sys-admins with deployments to Production environment, increasing security, and performing upgrades of operating system, e.g: Debian 8 to 9 setting up our local Debian repositories using tools like Aptly. Performing research and benchmarks to recommend the adequate hardware to upgrade the company infrastructure. Familiar with vCenter, vSAN, vMotion and high ability, load balancing to keep system running all the time.

As one of the Architect and Senior Developers of the company I have broken-down the systems into components, the component interactions and interfaces, the technologies and resources to be used in new projects. I have run benchmarks between Java and NodeJS, also between MySQL and MongoDB, helping the CTO with the planification of projects and helping to take the right decision when choosing technologies. Because we have several applications, docker images and environments, I have developed a web solution/dashboard to help with the deployment process and see where we at on Production vs QA vs Dev environments. The software is able to push the right docker images to our environments and performs rollback if necessary.

I have developed Hasura/GraphQL Actions, implementing Hasura's Authentication and Authorization using Java SpringBoot framework. More recently I have been helping the team to use, build and deploy Ionic web applications with iOS and Android support.

Company: NXM labs

Title: Application Architect, team lead and senior developer.

August 2017 - January 2019 (17 months - Contract role)

<https://www.nxmlabs.com> (over 25 people)

As the Architect of the company and focus on the automobile project which involved Sprint Network, I performed the design, analysis and development of software that communicates from OBD2 devices to the NXM Backends using HTTPS/MQTT protocols. The device is an OBD2 dongle created by NXM which runs Linux, the device has Wi-Fi hotspot, Bluetooth LE, 4G and GPS. The software written in Java 8 using Sprint Boot allows to perform some features as: collecting summarized car telematics data, remote retrieval of vehicle status, vehicle tracker, geofencing, find my car, remote updates over-the-air (OTA).

I have designed and implemented 3-tier architecture environments: development, QA, production. I have installed, configured and performed maintenance on multi-nodes MySQL Clusters, one cluster per environment.

I have implemented a scalable microservices architecture on 5 backends, those backends will communicate to each other implementing RESTful APIs, using Spring Boot running on Docker containers, some of those backends will be publishing and subscribing to MQTT topics to interact with the cars. Some of the backends needed to have user interfaces (UIs), then I implemented some dashboards using Thymeleaf and Bootstrap.

I have created some smart contracts and using the Web3j library I have deployed sensitive information to our Blockchain (PoA), where depending on the sensibility level of the information, the data will be encrypted using AES algorithm before deploying to the Blockchain.

As team lead and team player, I have been providing guidance and coaching to intermediate-junior developers with the objective of help achieving the goals set by management. I have supervised the mobile apps development, established the security protocols to be used between apps and backends, using public key infrastructure and adding SSL Pinning to the mobile apps.

Company: Enterprise Rent-A-Car / CarShare division

Title: Senior Software Engineer

October 2016 - June 2017 (8 months - Contract role)

<https://www.enterprise.com> (over 90 K people)

Daily Scrum meetings, review of Jira tickets and use of Kanban boards. Enhancements on the Vagrant/VirtualBox environments, creating new images from scratch for CentOS and Ubuntu, implementing Ansible in order to provisioning local servers and virtual machines. Preparing the ground to migrate from PHP 5.3 to 5.6 for some legacy systems. Coaching intermediate-junior developers, transferring knowledge and making a positive and productive work environment.

Setting up a new Server and other Web Server to help with the load of the traffic (Web traffic and APIs on different servers) lowering the server's load of the biggest instance for the CarShare division. As a Senior Developer, I improved the End of Month/EOM that was taking 84 hours to process, after I added some multi-processing / multi-tasking logic, the End of Month process now takes just 12 hours.

Improving the source code especially when generating the corporate accounts invoices from 25-30 minutes to 5 minutes. Dip a toe in the water with J2EE, Gradle/Spring Boot for RESTful APIs (Micro services) using Docker containers.

Company: Riavera Corporation (Personas, Peeks, Telebuy)

Title: Senior Web and Mobile Developer

June 2015 - October 2016 (16 months, 20+ people - Contract role)

<http://www.personas.com> <http://peeks.com>

Peeks, a live-streaming social e-commerce platform, which has been active developing in the recent months, aimed to launch on summer 2016. As lead developer, I was focused on the backend and supported the CTO with some architectural decisions and strategies. I created over 80 RESTful APIs using SOA/Micro services. Also, I helped with the development of some modules of the iOS app using Apple's Xcode & Swift. Coaching the mobile team about interaction between mobile and backend, responsible of deploying code to production, and taking the lead with the CTO was on vacations. Familiar with the setup of Wowza Streaming Engine Media Server, bitrate, codecs, formats.

Personas, is all-in-one social network that allows to separate your contacts with multiple profiles for enhanced privacy, share posts to all your chosen social media accounts (Facebook, Twitter, Instagram) and enjoy many advanced photo editing features. I have developed many modules using RESTful APIs, SOA/Micro services for Personas backend and frontend.

Telebuy, an in-house payment processor wrote in J2EE, EJB 2.x and 3.x, I fixed some minor bugs and do some maintenance from time to time.

Company: YTZ International

Title: Senior Web and Mobile Developer

September 2013 – June 2015 (20 months - Permanent role)

<http://www.ytz.com> (20+ people)

Automation of complex business processes of the company. Familiar with Agile software development, stand-up meetings, SCRUM, Jira/Kanban boards.

Responsible for the development of complex tools using the PHP framework CodeIgniter and its modular extension HMVC. This involved heavy JavaScript and jQuery manipulation and validation. Server-side processing with PHP, SQLite and MySQL databases. Calls to other systems of the company based on APIs and some Web Services.

Creation of a module to handle the database of domains of the company (over ten thousand domains). Performing WHOIS using the APIs: WhoisXmlAPI, RoboWhois or DomainTools. Generating reports in CSV files and modules that import data using CSV files to our system, bulk tools.

I developed a Queue in order to check for records to be processed. For each process, we are parsing the data, comparing the data against the databases, performing rsync's of files between servers, replacing domains, calling APIs and notifying via e-mail about the status of the run. Developed a lot of automation for the complex business core of the company.

I have developed a few WebApps in order to simplify daily tasks and having the possibility to call Web Services / Micro services (RESTful APIs) from a smartphone or tablet.

Company: Jibestream.com

Title: Senior Web and Mobile Developer

September 2012 – August 2013 (one-year contract)

<http://www.jibestream.com> (15+ people - Contract role)

Developed the Toronto Pearson's Mobile/Desktop Digital Terminal Maps from scratch. I created an entire solution allowing uploading of the maps, parsing of SVG images (vector maps), storing the result in an Oracle database and preparing the data for retrieval from the website. Also, I created a CMS that allows an admin-user the mapping of items on the database of amenities (coffee shops, restaurants, washrooms, elevators, etc.) Because the maps are vectors (SVG) the website will recognize and adapt (Adaptive Web Design) if the user is visiting from a mobile/tablet browser or from a desktop browser and the layout will change according to the resolution of the screen, plus if the user rotates the device from portrait to landscape the page will refresh with the new layout.

Coaching other developers, transferring knowledge sessions and contributing with a productive environment. Work close with the Architect of solution to satisfy the complex requirements of the projects.

The website has a lot of features, from searching, zooming, sharing of maps, filtering which items should be shown and providing details of the item when it was clicked / touched. I also installed the necessary software/packages like Linux OS, different databases, Apache and PHP, GlassFish Application Server, remote connectivity (SSH), parsing of Logs files.

Company: Domainer Inc.

Title: Senior Web Developer, e-commerce Architect

July 2012 - September 2012 (3 months contract)

<http://www.openapps.com> (5 people - Contract role)

I implemented the PayPal's Adaptive Payments (RESTful APIs), plus the development of modules including Sign-In, user creation and maintenance, uploading of files, parsing huge text files (CSV, XML, JSON), optimizing queries on the Database side, E-Commerce shopping cart, transaction management and image manipulation. Using a proprietary PHP framework based on CakePHP.

Company: Scotiabank / Scotia Capital (TAG division)

Title: Senior Software Developer

November 2011 – April 2012 (6 months - Permanent role)

<http://www.scotiabank.com> (75,000 employees worldwide)

As part of the Application Development in supporting Scotia Capital Derivatives business lines, I have worked on a team that is responsible for the effective and efficient development, implementation and support of mission critical, on-line, real time financial trading, risk management or decision support programs or application systems of medium to high complexity; contributing to deliverance of technology application services to the department's clients to meet their needs.

I resigned from the bank in order to return to my area of expertise which is web application development and move forward to smartphones and tablets developments using web apps and native apps.

Company: Oceanex Inc.

Title: Java Architect and Senior Software Developer

April 2010 – October 2011 (18 months - Permanent role)

<http://www.oceanex.com> (140 people)

- Extensive refactoring and restructuring of our corporate intranet including the removal of EJB 2.1 code, resulting in pronounced performance improvements.
- Incorporated APIs including Google Apps, Microsoft LDAP and Web Services to access and modify external data used in multiple modules of our intranet.
- IBM WebSphere Application Server and AS/400 administration including patching and migration for version 6 and 7 of WebSphere Application Server.
- Maintenance of some existing Web Services and creating new ones using RESTful APIs.
- As Java architect of our company's back office solution "Client Zone" I:
 - Implemented the Struts 2 framework, set up actions, interceptors, tags, servlets and JSP using the full power of Web 2.0 technologies
 - Created database schemas, table relationships, indexes and constraints, adding Hibernate to the list of tools we used.
 - Built a security module to allow customers to create new users with limited profiles and assign accessibility privileges based on established rules.

Company: Twist Image

Title: Senior Web and Software Developer

September 2009 – March 2010 (6 months - Permanent role)

<http://www.twistimage.com> (80 people)

- Creation of shell and PHP scripts in order to make an Adobe AIR file (package) in real time for the fall Campaign 2009 of Dairy Farmers of Canada. Plus, I designed, developed and implemented an XML generator in PHP, which grabs data from the database, prepares the content and generates/outputs to XML files.
- For a TD Canada Trust Campaign, I designed, developed and implemented a Parser using PHP's XML libraries, in order to connect to remote sites (vendors), grab RSS Feeds and parse the files, the RSS Feed have URLs of images, which I resize, rescale and convert from one format to another.
- I collaborated on the development of the project for the TD Canada Trust, campaign "What's your deal?" using the framework Symfony for PHP, we simulated some features of Facebook such as, post comments, do the likes, delete comments, add URL to comments, etc.
- I did some maintenance and de-bugging for the Johnston Group (johnstongroup.ca), using the framework Cake for PHP.
- For the new version of Dairy Farmers of Canada (getenough.ca), under the module of the contest for The Dairy Dash game, I was assisting some team members and I was the main developer for the creation and validation of forms and sign-on module, I implemented captchas, validation, storage and data retrieval from Database, using the framework Symfony for PHP and MySQL databases.