

Jesus Bianco (Toronto, Ontario).

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

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

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

I am not looking for jobs in USA, just in Toronto, preferably in downtown/midtown. I have worked as a contractor, I am incorporated since 2012. I am open to contracts and permanent jobs.

This is my full resume, it was updated on January 2019, get a copy of this resume online

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

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

E-Mail: jmbianco@yisu.net

Phone: (416) 829-0187

Address: Spadina and St-Clair, Toronto, Ontario, CANADA

Languages: Spanish, English, and basic knowledge of French

I have solid experience in architecture of applications/solutions and Internet content development. I have led groups of developers, teams made up of 2 to 7 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, message queues, e-commerce, home banking and payment systems, transaction management systems, firewalls, remote connectivity and network routing, virtual private networks, virtualization and automated provisioning, Dockerization of applications and orchestration. With knowledge in servers and workstations: UNIX/Linux, Apple macOS X, Microsoft Windows, and System i (aka AS/400). Around 25 years of experience in software engineering.

I have developed complex and efficient information systems for high traffic apps and websites, as well as Intranet and Internet solutions. 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). Experience on Ethereum blockchain, smart contracts and Java web3j library, proof-of-work (PoW) and Proof-of-authority (PoA). I moved from Caracas, Venezuela to Montreal, Quebec in 2007, I moved from Montreal to Toronto in 2011. I am a Canadian, Italian and Venezuelan citizen.

Education:

Computer Science Bachelor 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

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 aka Java 8, my code runs on Java 11	2005	> 12 years (Advanced)
Spring Boot (2017), Spring MVC (2011)	2017 / 2011	1.5 years (Advanced)
Gradle v4.x	2017	1.5 years (Advanced)
Thymeleaf Java template engine	2017	> 1 year (Advanced)
Java Server Faces (JSF), 2.x, PrimeFaces 3.x/4.x	2013	1 year (Intermediate)
Apache Struts Framework, 1.3 - 2.x	2007	3 years (Advanced)
Apache Tomcat App Server, 6.x - 8.5	2007	5 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 Application Server, JBoss HornetQ	2015	> 1 year (Intermediate/Advanced)
Oracle OC4J Application Server	2006	1 year (Intermediate)
Apache Ant & Apache Maven	2006	4 years (Advanced)
Hibernate ORM Framework: 3.x, 4.x, 5.x	2011	2 years (Intermediate/Advanced)

PHP technologies and frameworks	First time used	Average years, levels of proficiency
PHP versions 3.x, 4.x, 5.x and 7.x	2000	> 15 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 (Admin on all platforms)	2000	> 15 years (Advanced)
MySQL Cluster 7.x two or three data nodes (admin)	2018	> 9 months (Intermediate/ Advanced)
PostgreSQL 8.x, 9.x (Admin on Linux & MacOS X)	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)
JavaScript, 1.1 - 1.8	1996	> 20 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)
Bootstrap Framework 3.x, 4.x	2016	> 9 months (Intermediate)

Relevant technologies	First time used	Average years of experience
Eclipse Mosquitto and Erlang MQTT Broker (MQTT)	2017	> 1 year (Advanced)
Apple's Swift, versions from v1 to v4.	2015	> 2.5 years (Advanced)
Apple Xcode, Storyboard, Auto-Layout, CocoaPods	2015	> 2.5 years (Advanced)
Apache web server/httpd, versions 1.x, 2.x	2000	> 18 years (Advanced)
Regular Expressions (Regex)	2001	> 15 years (Advanced)
LINUX (Red Hat, CentOS, Fedora, Ubuntu, Debian)	1996	> 20 years (Advanced)
Store Procedures (PL-SQL, SQL PL)	2005	> 6 years (Advanced)
SubVersion (SVN)	2006	> 7 years (Advanced)
GIT (VCS), Large File Storage (GIT LFS)	2013	> 3 years (Advanced)
VirtualBox, vmWare, Parallels (Virtualization)	2006	> 10 years (Advanced)
Vagrant, version 1.7 – 1.9.x	2016	1 year (Advanced)
Ansible (automation engine), version 2.x	2016	1 year (Advanced)
Docker and Docker compose, building my own images	2017	2 years (Advanced)
Kubernetes (k8s), Ingress	2017	> 1 year (Intermediate/Advanced)
Jenkins automation server	2016	1.5 year (Advanced)

Work experience:

Company: NXM labs

Title: Application Architect, team lead and senior developer.

August 2017 - Present (16 months and counting - 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 Spring 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 of 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 - Permanent 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.

Company: DateDeChoix.com

Title: Full Stack Application Developer

April 2009 – September 2009 (5 months - Permanent role)

<http://www.datedechoix.com> (5 people)

Book appointments scheduling software and management of clients, staff and rooms. Online payments.

- Performed research, test and integrate the PayPal payment solution using their Payments Pro and Checkout Express (including recurring payments) interfaces/APIs
- Designer and Developer of a full-featured search engine allowing filtering by dates, start times, status, employees and key words.
- Analyzed and optimized existing SQL queries and database table design.
- Developed revenue, appointments, service and staff reports using jQuery and Sparklines graphics libraries.
- Developed CSV file Import and Export modules.
- Created secure login and password management functionality using HTTPS under Web 2.0.
- Headed the implementation of Matis Bug Tracker and Subversion (SVN) for use with all corporate development.
- Automated application deployment via both shell and Perl scripts. Scripted automatic backups between development and production servers.
- Revamped Linux production servers to support current configuration standards, service/daemon management and firewall protection. Set up new Ubuntu development environments supporting Apache HTTP/HTTPS, PHP, MySQL server, shell scripting.

Jesta IS Inc.

Verdun -Ile des Soeurs, Qc, H3E 1N3, Canada

January 2008 – January 2009 (one year)

[http:// www.jestais.com](http://www.jestais.com) (90 people)

Web and Software Developer

Permanent role

Provider of business-to-business software supply chain solutions, offering business process outsourcing and services for the apparel and footwear supply chain.

- Maintenance and enhancements in Perl for the company's Point of Sale (POS) software, under LINUX using different virtualization solutions such as VMware and SUN VirtualBox.
- Port an important component of the Point of Sale (POS) from a Java Applet to a VB.Net application.
- Development of a "wrapper" application in VB.Net that uses a web browser control, using sockets and threads for handle devices like printers, scanners, credit card readers using OPOS drivers.
- Development of add-ons in PL/pgSQL for the company's point of sale software.
- Performed research and planning in order to move existing Perl code and VB.Net "wrapper" application to the Java platform using TopLink Essentials.

Tools: Apache Web Server, Perl, Java J2SE and J2EE, VB.Net, PostgreSQL database, HTML, JavaScript, CSS, PVCS, Red Hat Linux, VMware & Virtual Box.

I moved from Caracas, Venezuela to Montreal, Quebec.

SGH Consultants, Venezuela / SGH Consultores, Caracas, Venezuela.

Senior IT Consultant

Assigned to the company Movistar as an IT Consultant.

Contract position

Movistar/Telefónica has about 200 million customers, and present in over 20 countries.

October 2006 – September 2007 (one year)

<http://www.sghconsultores.com> (130 people)

<http://www.movistar.com> (over 3000 people in Venezuela)

Movistar is a major Spanish mobile phone operator owned by Telefónica. It operates in Spain and in many Latin American countries.

- Team leader and supervisor to redesign the framework of SGH Consultants' Intranet, where the Servlets were structured, Facades were implemented, DAO's were redefined, for an adequate use of the MVC 2 pattern used with J2EE. Administration, Configuration and Implementation of the CVS server for the project under Windows and UNIX platform.

Assigned to the company Movistar:

- Developed the communications module with Ericsson AXE Central through automatic processes in J2SE via Telnet, and with the use of Struts Framework for J2EE and Oracle Databases under SUN Solaris/UNIX. Configuration and Implementation of the CVS server under Windows for the project.
- Developed the "Post-payment" platform, using BEA Tuxedo transaction manager together with Oracle C++ Call Interface using Oracle Databases.
- Developed of the new charging of Telsafe fees in the "Pre-paid" platform, using the BEA Tuxedo transaction manager with Pro*C/C++ and Oracle PL-SQL.

Tools: Apache Tomcat, Java J2SE & J2EE, Oracle databases, MySQL databases, Struts 1.3 Framework, CVS for Windows & UNIX, BEA Tuxedo transaction manager, Oracle C++ Call Interface (OCCI), Pro*C/C++, Oracle PL-SQL, create tables, indexes, triggers, constrains, and UNIX Shell Scripts.

Informatics GESFOR of Venezuela / Informática GESFOR de Venezuela

IT Consultant

Assigned to the company Federal Bank of Venezuela as an IT Consultant.

Contract position

Federal Bank of Venezuela (top 10 banks in Venezuela), over 2 million customers.

March 2006 – September 2006 (7 months)

<http://www.gesfor.es> (present in 10 countries)

<http://www.bancofederal.com> (about 1500 people in Venezuela)

- Assigned to the company Federal Bank of Venezuela (Banco Federal de Venezuela). Designed, developed and implemented the new various modules of home banking and multiple areas of the new Intranet using J2EE and Oracle databases under SUN Solaris/UNIX.

Tools: Apache Tomcat, IBM WebSphere, Subversion, Java J2SE & J2EE. Databases: Oracle, Microsoft SQL Server and MySQL. Oracle PL-SQL, triggers, sequences, error handling, indexes and constrains & connection pooling, CSS, JavaScript, Shell Scripts.

Sooner Technology, Caracas, Venezuela

Assigned to the Bank of Venezuela/Santander Group as an IT Consultant.
Bank of Venezuela/Santander Group has present over 30 countries worldwide. The Bank of Venezuela is top 5 bank in Venezuela, over 4 million customers.

May 2005 – January 2006 (9 months)

<http://www.sooner-technology.com> (50 people) domain not working anymore

<http://www.bancodevenezuela.com> (over 2500 people in Venezuela)

**IT Consultant
and Architect**
Contract position

- Assigned to the Bank of Venezuela/Santander Group (Banco de Venezuela – Grupo Santander). Designed, developed and implemented the courses manager for the Human Resources Department in the Intranet using J2EE and Oracle Databases.

Tools: UNIX, Java J2EE (MVC 2), JavaScript, CSS. Oracle Database, SQL, PL-SQL, creating and managing index, constraints, optimizing queries and Database connection pooling.

**Center of Psychiatric, Psychological, and Sexological Research of Venezuela.
Centro de Investigaciones Psiquiátricas, Psicológicas y Sexológicas de Venezuela.**

February 2002 – February 2005 (3 years)

<http://www.cippsv.com> (over 80 people and with 6 branches in Venezuela)

**Developer
and Architect**

- Developed the Web Site of the company based on LAMP “external hosting”.
- Designed, developed and implemented:
- The Intranet of the company in PHP under Red Hat Linux and using MySQL Database.
- The Studies Control Automated System in the Intranet of the company.
- The Books and Thesis “Degree Projects” Automated System in the Intranet.
- The entire network implementation, Automatic back-ups on Linux, shared resources and remote connections
- Linux Servers Configuration (Fedora core 2, Red Hat) and Windows workstations.

Tools: Linux, Apache, PHP and MySQL. CSS, JavaScript and Shell Scripts.

**Website directory Auyantepui.com, Venezuela
Directorio Internet Auyantepui.com, Venezuela**

Website directory and search engine with over 9 million visits per month.

November 2000 – February 2002 (16 months)

<http://www.ayantepui.com> (15 people)

**Web Developer and
Network Manager**

- Developed the various modules of the Auyantepui.com in PHP under Red Hat Linux and using MySQL Database Servers.
- Designed, developed and implemented the website: TuSuerte.com in PHP under Red Hat Linux and using MySQL Database Servers.
- Developed the content Administration, back-end of the site: Postales.com based on LAMP
- Maintenance of the local network/Intranet, Red Hat Linux Servers configuration

Tools: Linux, Apache, PHP and MySQL. CSS, JavaScript, Shell Scripts.

Web Portal Loquesea.com, Venezuela

Web Portal Loquesea was present in more than 10 countries and with over 80 millions of visits per month. Company and domain do not exist anymore.

January 2000 – November 2000 (11 months)

<http://www.loquesea.com> (150 people in Venezuela)

**Web Developer, Network and
technical support Supervisor**

- Developed multiple modules of the web Portal Loquesea.com in PHP under SUN Solaris/UNIX and Microsoft SQL Server 2000.
- Network manager for maintenance and tech support. (+140 Apple Macintosh and Microsoft Windows workstations).
- Microsoft Windows 2000 Servers configuration and maintenance.

Tools: Microsoft ASP, Microsoft SQL Server, PHP, CSS, JavaScript, Shell Scripts, CVS.