

# Jesus Enrique Aldana Sanchez

*Manger, Team lead, Full-Stack developer with strong experience building and integrating of business applications*

🏠 Guadalajara Jal, **Mexico**  
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Tibco	APIGee	JHipster
SOAP WS	REST WS	RMI WS
J2EE 1.8	Spring Boot	Kafka Messaging
Git / GitHub	MongoDB / Oracle , MySQL DB &	
PLSQL	Meteor	Vue JS

## EXPERIENCE

Wide experience in solutions based on different technologies to reach and exceed customer expectation. I am passionate about technology and I am always in search of the best techniques and tools suitable for each challenge to achieve business objectives.

### AWS

Implementing monolithic and native software components

### Message queue

Built a connection to get Queue messages and integrates it to some process applying transformations according the case since different clients and languages.

## EDUCATION

### Other schools

*Certification in BPM Bonita  
Unix and Linux course  
Scrum methodology course  
UdeMy certifications about last technologies.*

### Technical Institute of Toluca

Software Engineering Computer Science

### Technological Institute of Durango

Thermal engineering, Mechanical engineer

## INTERESTS

### Gitter communities

*Reactive Community*

- Sharing opinions about Vue JS framework
- Interacting with some people about design-patterns

### Elixir Radar

*Elixir newsletter written by plataformatec*

- Learning Elixir language as a dynamic, functional language. It is designed for

## Outdoors

- Interaction with the family on walks
- Biking and traveling

## EXPERIENCE (CONT. )

### **DiMeMex** Guadalajara — **FrontEnd Developer based on Vue JS, Meteor and MongoDB**

January 2020-

- Implementing an architecture solution to critical mission software solution based on MongoDB, Meteor JS and Vue Js working under Node server.
- Implementing security module
- Implementing all catalogs of the system.
- Creating Deployment manual method on local and Cloud Computer platform
- Implementation of the automatic deploy on Cloud computing using Git-Jenkins-Docker

### **Afirme Bank, Monterrey Mexico** — **IBM BPM Developer**

August 2019-December 2019

- Resolve a lot of tickets to delivery CREDIT module of IBM BPM platform solution
- Implementing a log for each BPM application to get trace
- Implementing Shadow Screen to wait on click event on Javascript Component
- Implementing Backend persistence to Oracle DB to get data reports since BPM

### **IngeCompu, Guadalajara** — **AWS back end Developer**

March 2019 -- August 2019

- Designing API Rest WS AWS
- Implementing a demo to improve manufacturing process solution
- OnLine on Udemy Course about AWS Solution Architect Associate

### **Prototype, Guadalajara** — **Java API Designer and back end Developer**

February 2019 -- March 2019

- Designing API Rest WS using Apiary platform.
- Implementing architectural API WS proposal using APIGee platform.
- Implementing a prototype REST WS based on JHipster development platform.
- Course about Spring Cloud technology.

### **EZCorp, Guadalajara** — **Java Developer Team lead**

May 2018 -- January 2019

- Leading development teams to re-architect and migrate a POS system in the cloud.
- Implement best practices for coding, unit testing, code repository, build and deploy. scalable and maintainable application
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### **Citi-Banamex, Guadalajara** — **Tibco 5.6 Developer and Team lead**

January 2017 -- April 2018

- Learning current Tibco Banamex implementation to joining it to Citi Group platform
- Checking the integration plan and make a proof of concept about new requirements
- Developing new requirements of Banamex Tibco implementation coupling it to Citi Group infrastructure

**Citi - Banamex – Aternity technology - Guadalajara**  
**2016**

*Analysis/ Design /Development of  
Customized tool to pick up graphical evidence monitor*

- Build a java stand-alone application using RESTlet API based on Java, HTML, Json and Windows Script Host Technology. This application takes video recording of windows desktop on background and creates a video file for each 10 minutes. The administrator can access remotely mode to stop or run it.
- Build a Java Web application to admin the agent installed on Windows desktops around intranet.

The code could be seen [here](#)

**Ingenieria en Computo - Guadalajara**

2015

Erlang – Elixir- Phoenix web developer

Analysis/ Design /Development of Customized tool to pick up

**Development a Business Web application**

Implementation a business Web Application to management the production flow. The requirement is:

- Web application with show below features:
  - Distributed
  - Fault-tolerant
  - Soft real-time,
  - Highly available, non-stop applications
  - Hot swapping, where code can be changed without stopping a system
- Encrypted Security access and session implementation
- Database with low latency – Native Erlang database.

The code could be seen [here](#) or directly at [https://github.com/EnriqueAldana/Elixir\\_EasyMES/](https://github.com/EnriqueAldana/Elixir_EasyMES/)

**Banorte Insurance,**  
**Monterrey**

Software IT Manager and Developer

2014 -- 2014

- Management requirements, analysis, design, estimation and implementation of IT projects based on Oracle and Java technology.
- Monitoring, management and IT project closure.
- Definitions of technology, architecture, planning and methodology.
- Definition of test cases, automation strategy unit testing and monitoring execution.
- Application and Infrastructure Management for the Development phase.
- Interdisciplinary Interaction for managing IT projects.
- Management of IT vendors to implement IT projects.

- Technical selection of IT human resources for shaping development teams Information Systems.
- Report progress, risk analysis, definition and planning of countermeasures to minimize deviation implementation plan Information Systems.
- Review of J2EE application architecture SOA
- Review of code in J2EE application of SOA implementation based on JAX-WS with AXIS2 and CXF

## **Alen - Monterrey**

Software Android Developer

2013 -- 2013

- Development a mobile prototype based on hybrid framework  
Implementation of concept testing and prototype based Smartphone RIA (rich Internet applications under JAVA) On Appcelerator framework – Hybrid framework solution to Mexican Company.

The code could be seen [here](#) or directly at [https://github.com/EnriqueAldana/Hybrid\\_Mobile\\_App](https://github.com/EnriqueAldana/Hybrid_Mobile_App)

- Development a mobile solution to payroll solution focused to tablet devices
- Implementation of payroll as kiosk user interface. The Tablet was located on check points around plant. The user should put your checked or consulting the check record.
- Of course, that the Enterprise solution include another software components base java Microservices using Docker and Kubernetes
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- Development a mobile solution to cab service.
- Implementation of mobile application base on Android language, including the back end solution based on Docker , micro services and MongoDB.

This mobile application was focused to the Enterprise service. The client enter to application and request a cab service. The driver response and go to pick up to the customer. Later the driver send the invoice to the client. It app including the google maps API to shows the best route to complete the trip. Below you could see the PDF files with all initial design.

The code could be seen [here](#) or directly at [https://github.com/EnriqueAldana/GarzaM\\_cab\\_service/](https://github.com/EnriqueAldana/GarzaM_cab_service/)

## **Afirme Banking & Metalsa, Monterrey**

*Software Team lead and Developer*

2007 -- 2012

- Team leader to build assurance web application to Mexican company based on Java called MIDAS. 27 people participated around 14 months to build it.
- Proposals and implementations to automotive Mexican Company; traveling to India and Brazil plants:
  - Implementation of Development methodology based on RUP and SCRUM
  - Implementation of infrastructure development based on tools such as Wiki, Track +, Content manager based on exoPlatform, CVS on SUN Solaris platform servers
  - Implementation of application architecture solution for PLM - based SOA Life-Cycle Management Planning
  - Implementation of artifacts such as 100% JAVA Database, FTP, BPM, EMAIL.
  - Analysis and design of interface for Java and ERP application based on the "Progress" database platform running on .Net infrastructure. UML was used.
- Implementation of Java J2EE application to solve file transfer deep draft on Web. Documentation based on UML It is a graphical FTP server with drag and drop user interface.

The code could be seen [here](#) or directly at <https://github.com/EnriqueAldana/MeFTP/>

- Writing requirements, analysis and design of application-oriented J2EE-based PLM services. BMPN, STRUTS 2 , ExtJS 4 MVC, FTP, Sockets, XML and Web services: technologies such as were implemented. PLM is a Product Lifecycle Management.
- Implementation of java BPM engine based on Bonita Open Solution on Solaris.
- Implementation of J2EE application for administering processes, instances, users and groups BPM engine.
- Business proposal for implementation of project financial model for the business unit commercial vehicle base on Java Web architecture.
- Implementation of desktop application based on Java and QT for control and administration of the scale patio plant Apodaca.
- Analysis, Design, Development, Testing and Implementation of solution (datakit) based on PL / SQL and APEX for management geometries for System Floor (Floor Shop) in India.
- Analysis, Design, Development, Testing and Implementation of solution (SCRAP) based on PL / SQL and APEX waste management for System Floor (Floor Shop) on workstations and Mobile.
- Analysis, Design, Development, Testing and Implementation of solution (Component rules) based on Dot Net for managing business rules for Floor Systems (Shop Floor) on workstations.
- Analysis, Design, Development, Testing and Implementation of solution (Search, stream and manage files CNC) based on PL / SQL and Dot Net for manufacturing flow management for System Floor (Floor Shop) on workstations.
- Implementation of GIT repository on UNIX platform development team.
- Implementation of APEX for mobile intranet

- Implementation proof of concept and prototype Android Smartphone
- Implementation of concept and prototype testing on iPad Smartphone platform, IPHONE

**Metalsa , Monterrey**                      2007 -- 2007

*Software Java - Python Developer*

- Implementation of PLM desktop application based on Python and OpenGL

In this project called Product LifeCycle Management I have built a Desktop application including QT graphic library to GUI, OpenGL library to get CAD capabilities and Python language.

The idea was to create Desktop solution to management all information about product lifecycle of the Mexican Automotive company. I do not comment more about this solution because I have a Confidentiality contract

- Implementation of a switch device to get a short path algorithm based on Dijkstra solution

The implementation built a couple of classes. Ones to Switch node simulation and other to the controller that runs the Dijkstra's computation algorithm and sends the routing table to all switches. Some requirements shows below

- The controller class instanced as network node manages concurrence as a Switch In fact.
- The controller class checks the registered nodes and validates that they are alive, then it is sent to each node its calculation of short route for all the active destinations.
- The controller class detects that it has reached the waiting time -result of multiplying the number of nodes for a programmable time- for each node and has not registered or requested an update of neighbors, then we unsubscribe and update them to the ALL nodes active their short route.
- The Switch class asks each K time an update of Neighbors to the controller.
- The Switch class receive a parameter from the command line called -k that represents the refresh time for the communications.

The code could be seen [here](#) or directly at [https://github.com/EnriqueAldana/Python\\_Switch\\_Simulator.git](https://github.com/EnriqueAldana/Python_Switch_Simulator.git)

**Johnson Controls, Monterrey**

2005 -- 2006

*Software Java Project Lead and Developer*

- Design of the data model. In ERWIN.
- Review of architecture. Design and manufacture of technical specifications.
- Design and Manufacturing Test specifications.
- Design and specification of user tests.
- Activities RELEASE MANGER.
- Management Unit Websphere TEST.
- Training App Users.
- Make the technical specifications for the migration of 8 applications of version 5 to 6 websphere
- Test specifications
- Implementation of development
- Analyst and developer of the migration of JAVA applications Websphere 5.1 to 6.
- The analysis was made.
- Technical Specification.
- Development.
- Design test specification
- Running tests.
- Correction 2 functionality for CI
- Analyst.
- Developer.
- Tester.
- Release manager.
- Junks. Adding module to extend the functionality. It is a web application for managing the batteries that the customer returns to the plant.
- Development unit tests for extended functionality.

**SAT Mexican Taxes Office, DF Mexico**

August 2004 -- December 2004

*Software Java Senior Developer*

- Make the model analysis solution using WEB SERVICES, JAVA EE with STRUTS, DOM, XALAN, XERCES, JDOM, etc.
- Ask planning to manufacture 564 XML files and 236 Documents
- Coordinate the implementation of the model solution
- Make JAVA SWING tools for manufacturing process XML and XSD
- Participate in the work of the WEB JAVA J2EE tool to simulate the processing of documents from XML, XSD, XSL and XSLT to HTML and PDF.
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**Nacional Monte de Piedad, DF Mexico**

January 2004 -- September 2004

*Software Java Architect & Lotus Developer*

- Installation and Configuration Server, Database, Printers, Wireless Network and Hand HELD
- Responsible for coordinating decision-asset inventory and photography.
- Responsible for capturing information system
- Documentation on white paper
- Make testing system functionality.
- Making the user trainee
- Delivery of the system and documentation

**Client Enterprise Group Atlacomulco, Edo. De Mexico**

June 2003 -- December 2003

*Software Java Architect & Lotus Developer*

- Implementation of Enterprise Server for Enterprise Group Atlacomulco. It was to make the settlement of hardware and software to accommodate Database, Application Server and applications to a group of companies with operations in several buildings. The model was heterogeneous, multi-platform solution. Was used as a hardware servers SILICON GRAPHIC INC. REDHAT LINUX operating system. ORACLE DATABASE, JBOSS and Tomcat server applications. WINDOWS work stations. To employ ARROW communications LINKS TO PEER and ALSO Access (RAS Linux) and remote (WINDOWS) via INTERNET. The Compiere ERP & CRM Integrated Solution for small to medium enterprises worldwide solution is implemented. Aspel SAE and office.
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- Analysis of the proposed solution.
- Modeling solution architecture.
- Modeling of the technical proposal.
- Development of the solution.
- Implementation of the solution
- Support-Ticket

**Robert Bosch, Estado de Mexico**

January 2003 -- June 2003

*Software Java Project Lead, architect and Developer*

- Java stand alone system for monitoring production lines. A Server application that received signals from PLCs production lines that distinguish the state that keep the various work stations along the production line was implemented. With this application, Developed in JAVA , Managers, Programmers Production Planners and shop assistants, they can take the immediate state of the production lines analytically and graphically.
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- Analysis of user requirement.
- Approach to the proposal.
- Development of systems engineering. Swing application , Database ORACLE, analog-digital interfaces in JAVA PC application that sent files to the application server



**Robert Bosch, Estado de Mexico**

January 2002 -- January 2003

*Software Java Project Lead*

- The company requested support assistance to resolve a engineering technical task on floor plant site.
- Analysis of customer's requirements.
- Modeling solution.
- Introducing the offer manufacturing.
- Project management.
- Assistance analysis and project development.
- Support for the implementation of the system.

**Environment:** D.O.S batch programming

**Robert Bosch, Estado de Mexico**

December 2000 -- October 2001

*Software Developer*

Manufacturing of an application in C ++, for backing up files in DOS an Industrial Computer, which verified the quality of the production line "Automotive Alternators" in the company ROBERT BOSCH located in Toluca.

- Make the analysis of the requirements of the CUSTOMER.
- Shaping the request and make a sketch of the solution.
- Make the analysis of the solution and specify the computer program. and submit the proposal to the client.
- Project management, development plan, financial plan, plan testing and implementation in place.

**Environment:** D.O.S batch programming and C++, Borland IDE.