**GUILLERMO HERNÁNDEZ**

**Sr FULL STACK Java Developer / Architect**

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**Professional Summary**

* Overall **13+** years of experience with information technology and software development and **10+** years actively developing various projects based on **WEB, responsive, multi-tier and backend applications.**
* Ample expertise in projects from industries such as **Telecom, Travel and Hospitality, Pharmacy, eCommerce, Electronic tolling, Client Support, and Self-service**.
* Ample expertise with **Java (1.4 to 1.8)** as a backend programming language developing web applications, gateways, and backend processes.
* **4+ years** as **Java Solution Architect**
* **Scrum Master / Agile lead roles, coaching, and spread the Agile SCRUM methodologies.**
* **Lead development teams up to 20 members.**
* **Coached junior team members to solve technical issues and implement best practices.**
* **Defined the solution’s architecture that the development team built upon it.**
* Developed microservices using **Spring boot**
* Expertise in web development using **HTML, XHTML, CSS**, **Ajax, Angular 9, AngularJS**, **JavaScript, JSP, Servlets.**
* Implement **UI/UX** good practices for a better customer experience.
* Good experience in implementing eCommerce stores with **IBM WebSphere Commerce** and **Oracle ATG**.
* Used **Spring** framework as the main technology stack on the backend.
* Expertise in using **Object Oriented Design**, **Design patterns**, **UML**.
* Proficiency in **requirements gathering** and **analysis**, with a proactive approach.
* Robust design and development experience in **J2EE** including **JSP, Servlets,** and **JDBC.**
* Expertise in **ORM** frameworks like **iBATIS**, **MyBatis**, **Hibernate**, **JPA**.
* Expertise in **MVC** frameworks like **Struts 2**, **Spring MVC** at the web controller layer.
* Worked on **design patterns** like **DAO, DTO, Abstract Factory, SDO, BO, Singleton, Interface, Controller.**
* Expertise in developing web services using **WSDL,** and **RESTful**, interchanging data as XML and JSON formats.
* Good at developing **web services** with **Spring boot 2**.
* 1+ years of AWS experience using **EC2, Elastic Beanstalk, S3, API Gateway, CloudFront** and **Lambda.**
* Expertise with development tools like **Eclipse, NetBeans, TOAD, SQL developer, Visual Studio Code, MySQL Workbench.**
* Developed unit and integration tests for existing services using **JUnit.**
* Proficient in **RDBMS** concepts, queries, **PL-­SQL**, stored procedures, functions, jobs using **Oracle.**
* Robust in **design and implementation of databases** from structured and unstructured data complex domains.
* Good experience in designing and implementing **reports** using complex data.
* Valuable experience in **data analysis**, **data quality,** and **ETL** routines.
* Configured
* Used **Docker** images with several services like database servers, application servers, http servers and automation servers integrated to the solutions.
* Used CI/CD with automation server **Jenkins**, implementing build, test and deployment jobs into pipelines.
* Experience in Web/Application Servers such as **Tomcat 5/6/7,** **Jetty**, **Glassfish**, **JBoss**, **WAS**, **OAS, and Apache server** for deploying and configuring web applications.
* Experience in tracking analytics such as **Google Analytics** and **Google Tag Manager**.
* Used **Maven** and **Jenkins** as build tools for deploying the application**.**
* Lead maintenance team resolving bugs and developing quick improvements.

**Technical Skills**

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| Frontend Technologies | HTML5, JavaScript, CSS3, jQuery, Dojo, Express, Bootstrap, JSF, Primefaces, Angular, Material design, UX, Analytics. |
| Backend Technologies | Java J2EE, React, TypeScript/Angular, Struts 2, Rest, Spring core, Spring boot 2, Python, C, C++. |
| Application/Web Servers | Tomcat, Jetty, Glassfish, JBoss, OAS, WAS, Apache, IHS, NGX. |
| Databases | Oracle, DB2, PostgreSQL, MySQL, MongoDB, TOAD for Oracle, MySQL Workbench, PgAdmin. |
| Continuous Integration | Ant, Maven, Jenkins, npm. |
| Information | Postman, JSON, XML, Jasper, Talend ETL, Oracle EDQ, Tibco Spotfire. |
| DMP | Adobe Experience Manager 6.3 |
| CMS | Liferay 6, WordPress 5, Adobe Assets (AEM6.3). |
| eCommerce Platforms | IBM WebSphere Commerce 6/7, Oracle ATG 10 |
| Work and ALM | Trello, Asana, Monday, Jira, ZenTao, Redmine. |
| Bug tracking | Mantis, Jira, ZenTao, Redmine. |
| Other | MS Project, Visio, Bizagi, Star UML. |
| Versioning | CVS, SVN, GitHub. |
| Documentation | Javadoc, Markdown, OpenAPI, UML, BPM. |
| Methodology | SCRUM, SAFe, Waterfall, SDLC. |
| O.S. | Ubuntu 14, Windows 10, Windows Server 2012, OSX. |

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| Education |

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| TecMilenio University (Mexico City)Master in Information Technology Administration | 2015- 2016 |
| National Polytechnic Institute (Mexico City)Bachelor in Computer Systems Engineering | 2003- 2007 |

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| Certifications |

**Languages:** English: Fluent, Spanish: Native, Portuguese: Basic

**Java J2EE:** Java 1.6

**Methodology:** Leading SAFe (SAFe 4.6), Project Management (PMBOK 6), SCRUM

**Other:** Innovation Management

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| Work Experience |

## Client: GS Factors Mexico

**Company: GS Factors October 2020 - Till date**

**Role: Java Architect / Lead Java Developer**

**Description**: Implement base architecture for developing new products (internal and external) for the company. As Java Architect made research for the best technology stack, suited to the best development practices and tailored to a new development standard on cloud development.

**Responsibilities**:

* Conducted **requirements gathering** and **analysis** with key users and stakeholders.
* Implemented **SCRUM** as an agile methodology.
* Proposed **technical solutions** to business needs.
* Managed and led development team up to 5 members.
* Defined development standards with Java 1.8, Spring boot 2, Angular 9, Material, and Cloud-based deployments.
* Set up a standard project baseline for new projects on GitHub.
* Set up standard best practices on UX.
* Defined architecture to build applications with Elastic Beanstalk, API Gateway, S3,
* Defined and implemented basic architecture with AWS **EC2, S3, CloudFront, API Gateway** and **Lambda**.
* Set up standards on messaging, project layers, data validation, error flows.
* Designed business models for new products.

**Environment**: Java 1.8, Eclipse 4.7, Spring Core 5, Spring boot 2, Angular 9, React 16, PostgreSQL 11, MongoDB 4, AWS, Material Design, GitHub, NPM, Maven, Jenkins, JUnit, ZenTao.

## Client: Springlabs (Local IT Consulting)

**Company: Springlabs July 2019 - September 2020**

**Location: Mexico City**

**Role: Sr. Java Architect**

**Description**:

Springlabs is a local software developer that switches to product development instead of traditional development projects with clients. Implement base architecture for developing new products (internal and external) for the company. As Java Architect made research for the best technology stack, suited to the best development practices and tailored to a new development standard on cloud development.

**Responsibilities**:

* **Led development team** up to 5 members.
* Implemented **SCRUM** as an agile methodology.
* Researched technology stack options according to the existing needs.
* Adapted technology options for new projects distinct to the internal standard using **Spring** (native **tomcat**) on the backend, **Angular**/**React** on the frontend side, and **PostgreSQL**/**MySQL**/**MongoDB** on the database side.
* Set up baseline project and library dependencies with **NPM** and **Maven**.
* Prepared a deployment chain with **Jenkins**, managed dependencies with **Maven**, managed code repositories with **GitHub**, set up quality standards with unitary tests with **JUnit**.
* Managed development lifecycle with ALM **Taiga**.
* Defined and implemented basic architecture with AWS **EC2, S3, CloudFront, API Gateway** and **Lambda**.
* Developed **RESTful** APIs with **Spring boot** and tested with **Postman**.
* Built web interfaces with **Angular**.

**Environment**:

Java 1.8, Eclipse 4.7, Spring Core 5, Spring boot 2, Tomcat 8, Angular 9, React 16, PostgreSQL 11, MySQL 8, MongoDB 4, AWS, Material Design, GitHub, NPM, Maven, Jenkins, JUnit, Taiga, RESTful API, Postman.

## Client: Telcel (Major telecom carrier)

**Company: Gluo April 2018 - July 2019**

**Location: Mexico City**

**Role: Sr. Full-stack Java Developer / Java Architect**

**Description**:

Telcel is the biggest telecom carrier in Mexico. They implemented the main website (telcel.com) and the online store (tienda.telcel.com) with a headless commerce architecture: Adobe Experience Manager as front and IBM WebSphere Commerce as backend. My participation was on both platforms as a full-stack developer.

**Responsibilities**:

* **Led development and support teams** up to 10 members.
* Implemented **SAFe** as an agile enterprise framework.
* Developed new views for configuration on **AEM 6.3** Assets with **Angular**.
* Created nodes and consumed information from the **Apache Oak** repository via **Java**.
* Designed and configured the site’s content search with **Apache Lucene**.
* Overridden order functionality (**IBM WebSphere Commerce**) and payment options with **Java**.
* Built storefront pages with **HTML**, **CSS,** and **jQuery**.
* Customized and load data load processes in **Java** and **XML**, check-up results and configured data application on **DB2 9**.
* Integrated to legacy systems via **WSDL** and **RESTful web services** for equipment and line activations, and notifications.
* Implemented email notifications for order confirmations and abandoned carts with **HTML**, **CSS**.
* Managed project code with **GitHub**.
* Deployment of changes to the **WAS, DB2**, and **AEM** in QA and production environments.
* Follow up the development work and issues and documenting on **Jira**, **supported** applications and **fixed** their **issues**.

**Environment**:

Java 1.6/1.8, IBM RAD 9.5, Adobe Experience Manager 6.3, IBM WebSphere Commerce 7, WAS, IHS, DB2 9, Apache Oak, Apache Lucene, Angular 6, HTML, CSS3, jQuery, WSDL WS, RESTful WS, XML, JSON, Jira, npm, GitHub.

## Client: Martí Group (Major sports retailer)

**Company: ITE Soluciones Feb 2018 - Apr 2018**

**Location: Mexico City**

**Role: Sr. Full-stack Java Developer**

**Description**:

Martí is the biggest sports retailer in Mexico. One of their products is to run races for a member’s club called “Emoción deportiva”. The clients need to optimize the performance of the existing booking application. On the other hand, they have an online store to sell sports products allowing the clients to receive the merchandise directly to the door or buy online and pick it up in-store.

**Responsibilities**:

* **Led development team** up to 6 members.
* Designed changes to the existing database on **SQL Server.**
* Optimized queries performance on **SQL Server** and **Oracle** databases.
* Optimized calls from existing **REST web services** with **Java**.
* Optimized parameters for caching in the **SQL Server** database and **Apache Server**.
* Refactored some **RESTful web services** with **Java**.
* Customized front store pages with **HTML**, **CSS, jQuery**, and **Bootstrap**.
* Deployed changes to **tomcat** in QA and production environments with **Jenkins** and **Maven**.
* Managed project code with **GitHub**.
* Automated unit tests with **JUnit**.
* Supported applications developed and fixed their issues.

**Environment**:

Java 1.6, SQL Server 2012, Oracle 11g, Apache Server, Tomcat 6, GitHub, Jenkins, Maven, HTML5, CSS3, jQuery 3, Bootstrap 3

## Client: TEDISA (National electronic toll operator)

**Company: ITE Soluciones Dec 2014 - Jan 2018**

**Location: Mexico City**

**Role: Sr. Full-stack Java Developer / Technical lead**

**Description**:

TEDISA was the company in charge of operating the electronic tolling of all the highway infrastructure in Mexico owned by CAPUFE (Federal department) between 2014 and 2020. Implement processes to store, evaluate, validate before payment, and billing instructions were executed.

**Responsibilities**:

* Conducted **requirements gathering** and **analysis** with key users and stakeholders.
* Proposed **technical solutions** to business needs.
* **Managed and led development teams up to 20 members total.**
* Implemented several business rules with **Java** and **PL-SQL** for **Oracle 11g** to extract raw data, transform, and load it to a refined data stage.
* Used **views**, **materialized views,** and **partitioned tables** and **jobs** on **Oracle 11g** to achieve better performance.
* Used **TOAD** for **Oracle** to manage **databases** and developed **stored procedures**.
* Got better performance, optimizing **queries** cost through **explain plans** in **Oracle 11g**.
* Programmed **ETL routines** with **Java** over **Talend ETL** for **batch** processing.
* Conducted data quality checks with rules on **stored procedures** for **Oracle** and **ETL routines** in **Java**
* Filtered useful data to process business rules on those with **stored procedures** for **Oracle**.
* Performed several reports using **complex queries** over hundreds of thousands of records.
* Scheduled jobs to execute **stored procedures** in **batch** mode and **ETL routines** in **Linux**’s **crontabs**.
* Developed operative monitor dashboard and back-office tools on a web application with **Spring**, **HTML**, **CSS**, **jQuery,** and **Bootstrap**.
* Managed project code with **GitHub**, automated unit tests with **Junit** and deployed changes to **tomcat** in QA and production environments (on Linux) with **Jenkins** and **Maven**.
* Supported applications developed and fixed their issues.

**Environment**:

Java 1.7, Eclipse 4.7, Spring 4, Spring boot 2, Oracle 11g, TOAD, HTML, CSS, jQuery, Bootstrap 3, views, materialized views, partitioned tables, jobs, explain plans, PL-SQL, stored procedures, ETL, Talend ETL, complex queries, Linux CentOS 7, crontabs, batch processes, Jenkins, Maven, Junit, Tomcat 7.

## Client: MSD (Pharmaceutics)

**Company: ITE Soluciones Oct 2013 - Nov 2016**

**Location: Mexico City**

**Role: Sr. Full-stack Java Developer**

**Description**:

MSD (Merck Sharp & Dohme) is one of the biggest players in pharmaceutics of research and vaccine elaboration. Its sales needed to be monitored for wholesaler channels with a graphic dashboard that includes all convenient KPI’s to make decisions.

**Responsibilities**:

* Analyzed business rules for sales made to national wholesalers to implement a central control dashboard with **Java**, **Spring**, **HTML**, **CSS**, **jQuery**, and **Bootstrap** which marketing, commercial and financial departments used.
* Documented project lifecycle with **SDLC** ad-hoc customer’s framework.
* Implemented several business rules with **Java** and **PL-SQL** for **Oracle 11g** to extract raw data, transform, and load it to a refined data stage.
* Used **views**, **materialized views,** and **partitioned tables** and **jobs** on **Oracle 11g** to achieve better performance.
* Used **TOAD** for **Oracle** to manage **databases** and developed **stored procedures**.
* Performed several reports using **complex queries** over tens of thousands of records.
* Scheduled jobs to execute **stored procedures** in **batch** mode and **ETL routines** in **Linux**’s **crontabs**.
* Implemented KPIs dashboards with **Tibco Spotfire**.
* Managed projects code with **SVN** and its dependencies with **Maven**.
* Deployed changes to **Tomcat 6** in QA and production environments with **Jenkins** and **Maven**.
* Automated unit tests with **JUnit**.
* Supported applications developed and fixed their issues.

**Environment**:

Java 1.5/1.6, Spring Core, Spring MVC, Spring JDBC, AJAX, jQuery, HTML5, CSS3, jQuery 2, Bootstrap, Oracle 11g, PL-SQL, Views, Materialized views, Cron Jobs, SVN, TOAD, Eclipse, Jenkins, Maven, JUnit.

## Client: Martins (Major retail department store)

**Company: Magno Technology Feb 2013 - Sept 2013**

**Location: Minas Gerais, Brazil**

**Role: Full-stack Java Developer**

**Description**:

Martins Group is one of the biggest retailers in Brazil, established in Minas Gerais department. The eCommerce channel needed to be redesigned using an IBM platform with best practices. As a full-stack java developer, the team implemented the storefront.

**Responsibilities**:

* Overridden order functionality (**IBM WebSphere Commerce**) to integrate all the existing legacy systems for orders and inventory management via **WSDL web services.**
* Built storefront pages with **HTML**, **CSS,** and **jQuery**.
* Customized and load data load processes in **Java** and **XML**, check-up results and configured data application on **DB2 9**.
* Built widgets for product reviews and product ranking and front pages with **HTML**, **CSS, Dojo, jQuery,** and communicate them with **AJAX** to backend **REST web services**.
* Implemented email notifications for order confirmations and abandoned carts with **HTML**, **CSS**.
* Customized payment promotions in **Java**.
* Configured **XML** for **caching** strategy on **Dynacache**.
* Configured search indexes on **Apache SOLR**.
* Deployment of changes to the QA and production environments (**WAS, DB2**, and **AEM**).
* Developed custom reports on **IBM WebSphere Commerce** using data from **DB2**.
* Customized marketing promotions in **Java**.
* Deployed and configured changes in **WAS** and **IHS** from QA and production environments.
* Supported applications developed and fixed their issues.

**Environment**:

Java 1.6, IBM RAD 9.5, IBM WebSphere Commerce 7, WAS 7, IHS 7, DB2 9, Apache SOLR 1.4, HTML, CSS, Dojo, jQuery, WSDL WS, RESTful WS, XML, JSON, caching, DynaCache.

## Client: Dportenis (National sports retailer)

**Company: Magno Technology Nov 2011 - Jan 2013**

**Location: Sinaloa, Mexico**

**Role: Full-stack Java Developer**

**Description**:

Dportenis is one of the biggest players in sports retail in Mexico. The project consists of implementing the first eCommerce channel with IBM WebSphere Commerce that enforces the sales objectives of the company.

**Responsibilities**:

* Set up the local development, QA, and production environments with **Java 1.6**, **IBM WebSphere Commerce 6** (fix packs included), **IBM RAD 9**, **DB2 9**.
* Set up and manage the project baseline on **SVN** so that other developers did checkout.
* Integrated **SSO** with **Facebook** and **Google** in addition to the OOTB authentication method.
* Customized checkout web services with several overridden components with **Java**.
* Customized and load data load processes in **Java** and **XML**, check-up results and configured data application on **DB2 9**.
* Set up, configured, and customized product catalogs on **XML** and **CSV** to load data.
* Built widgets for product reviews and product ranking and front pages with **HTML**, **CSS, Dojo, jQuery,** and communicate them with **AJAX** to backend **REST web services**.
* Customized cross-selling, up-selling, and bundle business rules for recommendations written in **Java**.
* Refactored the cross-selling, up-selling, and bundle widget’s look and feel in all the front pages where they were loaded with **HTML5**, **CSS3**, **Dojo,** and, in some cases, pure **JavaScript**.
* Search engine configuration with **SOLR** and cache strategy with **DynaCache**.
* Developed payment plugin VISA-Mastercard connected to eGlobal payments gateway with **WSDL WS** and **XML**.
* Altered user data (Addresses, basic information, preferences) with **RESTful WS** and **JSON**.
* Implemented email notifications with overridden **Java** components and customized web templates with **HTML**, **CSS**.
* Consumed **web services** with **WSDL** to read and write information to the store backend.
* Loaded data to set up all the environments on **DB2 9** to be deployed, including production.
* Deployed and configured changes in **WAS** and **IHS** from QA and production environments.
* Supported applications developed and fixed their issues.

**Environment**:

Java 1.6, IBM RAD 9.5, IBM WebSphere Commerce 7, SSO, WAS 7, IHS 7, DB2 9, Apache SOLR 1.4, HTML, CSS, Dojo, jQuery, WSDL WS, RESTful WS, XML, JSON, IBM DynaCache.

## Client: Banco del Bajío (Regional Bank)

**Company: Grupo ASSA Aug 2011 - Oct 2011**

**Location: Guanajuato, Mexico**

**Role: Full-stack Java Developer**

**Description**:

Banco del Bajío is one of the top 5 regional banks in Mexico with national coverage, especially in the central region known as Bajío. The hypothecary loan processes written in Java had to be implemented on existing SAP using the Netweaver framework.

**Responsibilities**:

* Analyzed the prospect qualification process and map it to **BPM**.
* Set up and manage the project baseline on **SVN** so that other developers did checkout.
* Implemented data acquisition forms where all prospect information was loaded with the front components provided by the **Netweaver** framework.
* Implemented validation rules on front forms against the business rules on the backend through WSDL services with the **Netweaver** framework.
* Consumed **WSDL web services** to query information to be pre-loaded on the front forms, transitions evolved throughout the process’s status according to the business rules.
* Notified with **Netweaver** services to the corresponding departments inside the system inbox and corporative email about the transaction statuses to be part of the authorization and approval flow.
* Integrated the approval events through **WSDL web services** to impact the status of the transaction.

**Environment**:

Java 1.6, Netbeans 6.8, SAP Netweaver 7.0, SVN, WSDL 2.0 WS, BPM.

## Client: OfficeMax (Major office retailer)

**Company: Grupo ASSA Sept 2010 - Oct 2011**

**Location: Mexico City**

**Role: Full-stack Java Developer**

**Description**:

OfficeMax is the second office products retailer in Mexico. They wanted to implement their brand-new eCommerce channel to increase their sales and compete with Office Depot that already had an eCommerce. Participated as a full-stack java developer to implement and customize the IBM WebSphere Commerce storefront and all the business rules according to the client ones.

**Responsibilities**:

* Set up the local development, QA, and production environments with **Java 1.6**, **IBM WebSphere Commerce 6** (fix packs included), **IBM RAD 9**, **DB2 9**.
* Set up and manage the project baseline on **SVN** so that other developers did checkout.
* Customized checkout web services with several overridden components with **Java**.
* Customized and load data load processes in **Java** and **XML**, check-up results and configured data application on **DB2 9**.
* Built widgets for product reviews, product ranking, cross-selling, up-selling, and bundle and front pages with **HTML**, **CSS, Dojo, jQuery,** and communicate them with **AJAX** to backend **REST web services**.
* Customized cross-selling, up-selling, and bundle business rules for recommendations written in **Java**.
* Search engine configuration with **SOLR** and cache strategy and configured the site’s content cache strategy with **DynaCache**.
* Developed payment plugin for VISA-Mastercard connected to eGlobal payments gateway with **WSDL WS** and **XML,** and AMEX with **raw sockets** and **hashed keys** as part of the authentication and security connections.
* Altered user data (Addresses, basic information, preferences) with **RESTful WS** and **JSON**.
* Implemented email notifications with overridden **Java** components and customized web templates with **HTML**, **CSS**.
* Consumed **web services** with **WSDL** to read and write information to the store backend.
* Deployed and configured changes in **WAS** and **IHS** from QA and production environments.
* Supported applications developed and fixed their issues.

**Environment**:

Java 1.6, IBM RAD 9.5, IBM WebSphere Commerce 7, raw sockets, hashed keys, WAS 7, IHS 7, DB2 9, Apache SOLR 1.4, HTML, CSS, Dojo, jQuery, WSDL WS, RESTful WS, XML, JSON, IBM DynaCache.

## Client: Palace Resorts (Vacations resort group)

**Company: Everis Mexico Dec 2009 - Sept 2010**

**Location: Quintana Roo, Mexico**

**Role: Full-stack Java Developer**

**Description**:

Palace Resorts is an all-included resort group with 10 facilities around the Caribbean and Los Cabos. They needed to migrate their old-fashioned website to a powerful and modern CMS that allows them to personalize and take control of all the content according to the marketing department campaigns.

**Responsibilities**:

* Built whole inventory for existing pages and contents.
* Designed site’s information architecture that comprises informational and transactional components.
* Built front components with **portlet specification** with only-view functionality using **HTML**, **CSS**, and **jQuery**.
* Built front components with **portlet specification** with configuration and view functionality.
* Consumed **REST web services** to query system and user data to be exposed to the front.
* Developed **REST web services** to expose content and information to the **CMS Liferay 6**.}
* Design database structure with **Oracle**.
* Managed projects code with **SVN** and its dependencies with **Ant**.
* Deployed changes to **Liferay 6** in QA and production environments with **Ant**.
* Supported applications developed and fixed their issues.

**Environment**:

Java 1.6, CMS Liferay 6, Oracle 8, Portlets, REST web services, SVN, HTML, CSS, jQuery, Struts 2.

## Client: Claro (Major telecom carrier in CA)

**Company: Be Mobile Aug 2008 - Dec 2009**

**Location: Guatemala, El Salvador, Honduras, Nicaragua**

**Role: Java Developer / Technical lead**

**Description**:

Claro carrier is part of America Movil corporate that conglomerates several mobile carriers around the world and especially in LATAM. The company developed and customized an SMPP gateway for CA headquarters located in Guatemala that helps to alleviate the congested traffic for SMS in Guatemala, El Salvador, Honduras, and Nicaragua.

**Responsibilities**:

* Developed SMPP Gateway to process all SMS traffic for shortcodes in national carriers (Guatemala, El Salvador, Honduras, and Nicaragua).
* Optimized with **Java** a **multi-threading** process with existing **service workers** and **workers** registered to them.
* Implemented **Java programming patterns** like **singleton** and **commands** to ensure process consistency and flexibility in execution.
* Scheduled frequent processes with **Linux crontabs**.
* Configured an embedded application server **Jetty** to reduce the application footprint.
* Designed and implemented all data models with **MySQL Workbench**.
* Designed and implemented database **views** to speed up the data layer response with **MySQL**.
* Reviewed and adjusted performance with the number of **workers** based on request-response times.
* Configured and tested load balancing with **tomcat**.
* Automated testing with basic strategy using **JUnit**.
* Implemented commands for particular shortcodes to trigger business functionality.
* Implemented unidirectional (**Rx/Tx**) and bidirectional (**TRx**) communication channels with SMPP.
* Managed projects code with **CVS**, managed dependencies with **Ant**.
* Supported applications developed and fixed their issues.

**Environment**:

J2EE 1.4/1.5, NetBeans 6, SMPP 3.4, JDBC, MySQL 5, MySQL Workbench, Tomcat 5, Jetty 6, REST services, Struts 2, JSF, PrimeFaces, multi-threading, service workers, workers, programming patterns, singleton, commands, views, JUnit, Rx/Tx, TRx, CVS, Ant, Linux Fedora 9, crontabs.

## Client: Be Mobile (National VAS Aggregator)

**Company: Be Mobile Aug 2007 - Dec 2009**

**Location: Mexico City**

**Role: Java Developer / Technical lead**

**Description**:

Be Mobile was an aggregator of value-added services (VAS) that worked in alliance with all mobile carriers in Mexico (Telcel, Movistar, Iusacell) to activate campaigns with SMS and WAP technology. My participation as a developer and architect consisted in gathering requirements enough to design a technical solution that was implemented, operated, and maintained until its retirement aligned to the marketing campaign life cycles of the clients.

**Responsibilities**:

* Developed SMPP Gateway to process all SMS traffic for shortcodes in national carriers (Guatemala, El Salvador, Honduras, and Nicaragua).
* Implemented with **Java** a **multi-threading** process with **service workers** and **workers** registered to them.
* Implemented with **Java programming patterns** like **singleton** and **commands** to ensure process consistency and flexibility in execution.
* Scheduled frequent processes with **Linux crontabs**.
* Configured an embedded application server **Jetty** to reduce the application footprint.
* Developed back-office consoles with **Java** to configure and operate **shortcodes** and what commands are **executed**.
* Designed and implemented all data models with **MySQL Workbench**.
* Designed and implemented database **views** to speed up the data layer response with **MySQL**.
* Reviewed and adjusted performance with the number of **workers** based on request-response times.
* Configured and tested load balancing with **tomcat**.
* Automated testing with basic strategy using **JUnit**.
* Implemented commands for particular shortcodes to trigger business functionality.
* Implemented unidirectional (**Rx/Tx**) and bidirectional (**TRx**) communication channels with SMPP.
* Manage projects code with **CVS** and manage dependencies with **Ant**.
* Operated VAS applications according to the campaigns of the clients, supported them and fixed their issues.

**Environment**:

J2EE 1.4/1.5, NetBeans 6, SMPP 3.4, shortcodes, JDBC, MySQL 5, MySQL Workbench, Tomcat 5, Jetty 6, REST services, Struts 2, JSF, PrimeFaces, multi-threading, service workers, workers, programming patterns, singleton, commands, views, JUnit, Rx/Tx, TRx, CVS, Ant, Linux Fedora 9, crontabs.