

Enrique Garcia Rosales

Toluca, Mexico, Cell-phone: +52 (722) 240 7912 Email: nitos_san@hotmail.com

EXPERIENCE SUMMARY

- ◆ Senior Java / JEE Developer with over 5 years of experience on System Analysis, Architecture Design, Implementation, Integration and Testing of Enterprise Java, JEE and SOA applications.
- ◆ Data Scientist and Data Analyst with over 3 year of experience on Big Data analysis, management and ETL process using Hadoop, Apache Spark, HBase and Cassandra.
- ◆ Extensive expertise on Application Development of Government Sector and Education Sector such as online evaluations, report of results and statistics, electronic billing, customer and employee management.
- ◆ Proactive, result driven, deadline driven, highly motivated, collaborative, flexible team player with excellent communication, attention to detail, analytical, critical thinking and problem solving skills.
- ◆ Extensive expertise in Java / JEE, JSF, Primefaces, EJB, Spring framework, JPA, Hibernate, JavaScript, Tomcat, JBoss, Weblogic, Oracle, MySQL, SQL, PL/SQL, SOAP / RESTful Web services, Hadoop, Apache Spark, HBase, Cassandra, Hive, Pig, Cloudera Impala, Sqoop, Flume.

EDUCATION AND CERTIFICATIONS

- B. E. in Computer Engineering at Autonomous University of Mexico State (UAEMEX).
- Oracle Certified Expert, Java EE 6 Web Service Developer.
- Oracle Certified Expert, Java EE 6 Web Component Developer.
- Oracle Certified Professional, Java SE 6 Programmer.
- Oracle Certified Associate, Java SE 7 Programmer.
- Oracle Certified Associate, Java SE 8 Programmer.
- Microsoft Technology Associate of Software Development Fundamentals.
- Microsoft Technology Associate of Database Administration Fundamentals.
- Microsoft Technology Associate of Security Fundamentals.



Technologies / Languages / Applications:

Java / JEE, Spring framework, JSF, Primefaces, EJB, JSP, Servlets, SOAP Web Services, RESTful Web Services, JPA, Hibernate, JAAS, JMS, JAX-RPC, JAX-WS, JAX-RS, JAXB, Apache CXF, JUnit, Hadoop, Apache Spark, Apache Kafka, Oozie, HBase, Cassandra, Hive, Pig, Impala, Sqoop, Flume, Python, PySpark, Scala, Netbeans, JDeveloper, Eclipse, SQL, PL/SQL, XML, JavaScript, AJAX, jQuery, AngularJS, HTML/HTML5, CSS, ANT, Maven, Oracle, MySQL, Tomcat, JBoss, Weblogic, Glassfish, Git/Github, SVN, Unix, Linux, Mac OS and Windows.

EXPERIENCE

Senior Java Developer,

August 2014 – Current Position

Secretariat of Public Education (SEP)

The Secretariat of Public Education respond to the need of the government and Mexican society, to coordinate the activities of evaluation in the Statal System Education of Mexico State with a scientific and technology background, to sustain the viability and reliability of the results in the outcome.

Enrique Garcia Rosales

Toluca, Mexico, Cell-phone: +52 (722) 240 7912 Email: nitos_san@hotmail.com

Project: Being Professor 2014

This Project it's an online evaluation for the professors to focus the opportunity areas of teaching at classroom to enhance the preparation of the professor

For the development of this Project, it was a web system for the online evaluation, where the professors have to answer a set of questions about the different opportunity areas. At the end of the test, the final score obtained by the professor showed up and also a chart of percentage of correct answers on every opportunity area.

Responsibilities:

- ◆ Analyze, design, develop, document, test and deploy using Java/JEE, Tomcat and MySQL.
- ◆ Participate in all stages of software development life cycle; design reviews, code walkthroughs, implementation and support
- ◆ Developed JSF and Primefaces for the view layer.
- ◆ Developed data access layer using Java and Hibernate.
- ◆ Developed controller layer using Java Spring Beans.
- ◆ Deployment and Administration of the Application on the web server Tomcat.
- ◆ Administration, schema object design and monitoring of the database on MySQL.

Technologies: Java / JEE, Java Spring Framework, JSF, Primefaces, Java Mail API, Apache PDF Box, Tomcat, Hibernate, MySQL and Netbeans.

Project: Results of ENLACE Test 2014

The ENLACE test applies in Higher Secondary Education to know in which level the young people are able to put into practice to real world situations like basic disciplinary competences fields of Communication and Mathematics acquired along the school.

In this project we had to carry out the deployment of results per pupil, school and subsystem, which for this, the federal government provided us with RESTful web services to consume the results of the ENLACE test and then we process and display on a web system the statistic charts developed by our team.

Responsibilities:

- ◆ Analyze, design, develop, document, test and deploy using Java/JEE and Tomcat.
- ◆ Participate in all stages of software development life cycle; design reviews, code walkthroughs, implementation and support
- ◆ Developed the web service RESTful client in the integration layer.
- ◆ Developed JSF and Primefaces for the view layer.
- ◆ Developed controller layer using Java Spring Beans.
- ◆ Deployment and Administration of the Application on the web server Tomcat.

Technologies: Java / JEE, Java Spring Framework, JSF, Primefaces, Apache CXF, JAX-RS, Tomcat, Netbeans.

Project: Results of PLANEA test 2015

The National Plan for the Evaluation (PLANEA) retrieves the conceptual and operational strengths of the ENLACE test and overcome its limitations to inform the public about the status of the education, in terms of achievement of student learning in two areas of expertise: Communication and Mathematics.

In this project we had to carry out the deployment of results per pupil, school and subsystem, which for this, the federal government provided us with SOAP web services to consume the results using the WSDL that they provided us of the PLANEA test and then we process and display on a web system the statistic charts developed by our team.

Responsibilities:

- ◆ Analyze, design, develop, document, test and deploy using Java/JEE and Tomcat.
- ◆ Participate in all stages of software development life cycle; design reviews, code walkthroughs, implementation and support.
- ◆ Developed the web service client SOAP in the integration layer.
- ◆ Developed JSF and Primefaces for the view layer.

Enrique Garcia Rosales

Toluca, Mexico, Cell-phone: +52 (722) 240 7912 Email: nitos_san@hotmail.com

- ◆ Developed controller layer using Java Spring Beans.
- ◆ Deployment and Administration of the Application on the web server Tomcat.

Technologies: Java/JEE, Java Spring, JSF, Primefaces, Apache CXF, JAX-WS, JAXB, Tomcat and Netbeans.

Project: Attendance Control System.

The Attendance Control System arose because of the need to control attendance records of employees in the Secretariat of Public Education.

The system consists of a biometric which communicates with a database to record employee attendance on the Entry and Exit of their work schedule.

Responsibilities:

- ◆ Analyze, design, develop, document, test and deploy using Java, JavaFX and MySQL.
- ◆ Participate in all stages of software development life cycle; design reviews, code walkthroughs, implementation and support.
- ◆ Developed GUI in JavaFX for the view layer.
- ◆ Developed data access layer using Java and Hibernate.
- ◆ Developed controller layer using Java and FXML.
- ◆ Deployment and Administration of the Application.
- ◆ Administration and Monitoring of the database in MySQL.

Technologies: Java and JavaFX, FXML, Digital Persona Java API, Hibernate, MySQL, Netbeans and JavaFX Scene Builder.

Project: Statistics and Data Analysis of the Integral Management System of the Secretariat of Public Education (SIASE)

The Integral Management System of the Secretariat of Public Education (SIASE) is the main system for managing teaching positions, educational services and scholarship management on Mexico State.

The project was carried out by the need to analyze the behavior and user trends in the use of the system, to thereby predict the workload on servers and see opportunities for improvement for educational services.

To bring out the project, it became extraction and loading of data from Relational Database Management Systems (RDBMS) and Server Log Files. After taking the load, an exploration of such data to know its structure and to transform them into a homogeneous format to later make an analysis of the data.

At the end, a new Web Application module was the results presented by charts of the analysis and the department heads of Education can visualize it and thus could make decisions to improve educational services.

Responsibilities:

- ◆ Data Extraction from Relational Database Management Systems (RDBMS) using Sqoop, HBase and Cassandra.
- ◆ Data Extraction from Server Log Files using Apache Flume.
- ◆ Data Exploration and Data Transformation using Apache Pig, Hive, Impala, Map Reduce on Hadoop and Apache Spark.
- ◆ Data Analysis through Apache Spark.
- ◆ Development of the Web Application Module to present the results on charts using Java/JEE, Angular JS, Bootstrap y Google Chart API.
- ◆ Deployment and Management of the Web Application on JBoss.

Technologies: Hadoop, Apache Spark, Apache Kafka, Oozie, Sqoop, Apache Flume, HBase, Cassandra, Pig, Hive, Cloudera Impala, Java/JEE, Angular JS, Bootstrap, Google Chart API, JBoss, Eclipse.

Enrique Garcia Rosales

Toluca, Mexico, Cell-phone: +52 (722) 240 7912 Email: nitos_san@hotmail.com

**Software Developer,
Municipality of Aculco**

May 2012 – July 2014

Project: Civil Registration System

Worked at team for develop a Server-Client Application to automate the Civil Registration System for the generation and administration of the Civil Registry in the Municipality of Aculco.

Responsibilities:

- ◆ Analyze, design, develop, document, test and deploy using Servlets, JSP, EJB, JBoss and Oracle.
- ◆ Developed JSP, AngularJS, HTML5, JavaScript, jQuery, AJAX, CSS for the view layer.
- ◆ Developed Servlets and Java Beans for controller layer.
- ◆ Developed EJB for business layer.
- ◆ Developed data access layer using Java and JPA.
- ◆ Deployment of the Application on JBoss EAP.
- ◆ Developed Queries and PL/SQL storage procedures in the Oracle database.

Technologies: Java, JSP, HTML5, JavaScript, AngularJS, jQuery, AJAX, CSS, Servlets, EJB, XML, SQL, PL/SQL, JPA, Oracle, JBoss and Eclipse.

OBTAINED DIPLOMAS

- Diploma of Accomplished online course of “Software as a Service” offered by UC Berkeley at edX platform.
- Diploma of Accomplished online course of “Human-Computer Interaction” offered by Stanford University at coursera platform.
- Diploma of Accomplished online course of “Hadoop Platform and Application Framework” offered by UC San Diego at coursera platform.
- Diploma of Accomplished online course of “Big Data with Apache Spark” offered by UC Berkeley at edx platform.
- First place at XXI Mexican Olympiad of Mathematics of Mexico State.

LANGUAGE DOMAIN

- Advanced Spanish (Native Language).
- Advanced English.
- Beginner Japanese.