

ISMAEL MEJIA

Software Engineer / IT Consultant

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EXPERIENCE

2014- ZOO-LOOP CLOUD ENGINEER | NANTES (REMOTE)

- Publicar (CO)
Software architecture and development of the new Web Analytics System
Stack: Node, Scala, Hadoop, Hive, Spark SQL, Amazon EMR AWS, Ubuntu
- Taste Wine Co. (USA)
Software architecture definition and deployment in Amazon Web Services (AWS) for the back-end system of an automatic wine distribution platform.
Stack: Java, Scala, Hadoop, MongoDB, Amazon AWS, Ubuntu

2009-2014 ÉCOLE DES MINES DE NANTES RESEARCH ENGINEER | NANTES

- Researched new approaches to modularize distributed systems. Published four scientific papers about software composition (meta-programming and introspection). Authored two prototypes of a language for invasive distributed composition.
Stack: Java, AspectJ, Javassist, Scala, Spring.
- Teaching Assistant in several core Computer Science courses: (20 students per group): Object-Oriented Programming, Software Engineering and Human-Computer Interaction.

2006-2009 A TODA HORA S.A. - GRUPO AVAL SOFTWARE ARCHITECT | BOGOTÁ

- Impact analysis and implementation guidelines for the new requirements of the different members of the group. (Grupo Aval is the largest financial group in Colombia),
- Architect and Project leader for the mobile banking service.
Stack: Java EE, Weblogic, MS SQL Server, SMS gateway.
- Created and Improved the personal banking website for Grupo Aval: reduced login time by 80% and integration four banks and a pension fund into one single interface.
Stack: Java, J2EE, MS SQL Server, ESB, WS-, SOAP, REST, XML, S1 PB, Weblogic, JMS, Stratus.*

2005-2006 WORLD BANK - DIAN SENIOR CONSULTANT | BOGOTÁ

- Design and implementation of a web framework to store and process all the tax forms used in Colombia (ca. 800 different formats).
Stack: Javascript, AJAX, Java, JavaEE, JSF, JBoss, Oracle.

2003-2005 IT DEUSTO - ETB SOFTWARE ENGINEER | BOGOTÁ

- Integration of the financial web application with the SAP CRM backend using BAPIs.
Stack: Java, J2EE, Struts, BAPI library, SAP CRM, Oracle,

EDUCATION

2006-2008 UNIVERSIDAD DE LOS ANDES
Master in Computer Science

1996-2003 UNIVERSIDAD NACIONAL DE COLOMBIA
Bachelor in Computer Science

COMPUTER SKILLS

PROGRAMMATION

Java	Python
Javascript	C/C++
Scala	SQL

WEB TECHNOLOGIES

HTML5	CSS3
XML	JSON
SOAP/WS-*	REST

SYSADMIN

Linux	Ubuntu
Apache	Nginx

MIDDLEWARE

JavaEE	Spring
JSF	JBoss
Weblogic	Websphere

DATABASES

MySQL	SQL Server
Oracle	Redis

BIG DATA

Hadoop	Spark
Hive	MongoDB

CLOUD

Amazon AWS	OpenStack-
Docker	

CERTIFICATIONS

- Sun Certified Associate for the Java Platform
- Sun Certified Programmer for the Java 2 Platform (SCJP 5.0)
- Sun Certified Enterprise Architect for the Java Platform, Enterprise Edition (SCEA 5) [first exam].

LANGUAGES

- Spanish (native)
- English (advanced)
- French (good)
- Portuguese (basic)

AREAS OF EXPERTISE

- Software Architecture
 - Design and implementation of reference software architectures.
 - System Integration, deployment and configuration management.
 - Diagnose and evolution strategy for software/IT services.
 - Implementation of software development methodologies and quality assurance processes.
- Project Management
 - Software life-cycle: Definition of requirements, design, implementation and deployment of solutions.
 - Team Management (8 engineers).
 - Redaction of specifications and project proposals.
 - Meeting planning and facilitation: working group, monitoring and steering committees.
- Software Development
 - Web development on different platforms/languages. Specialist in Java / JavaEE (JVM).
 - Version Management, Continuous Integration and Programming Methodologies.
 - Training and formation.

SCIENTIFIC PUBLICATIONS

- *Structured and Flexible Gray-box Composition using Invasive Distributed Patterns*, Mejia I, Sudholt M. (EMN/Ascola). IADIS International Journal on Computer Science and Information Systems. 2011.
- *Towards a robust model for distributed aspects*, Mejia I, Sudholt M (EMN/Ascola). MISS'2011, AOSD. 2011.
- *A framework for invasive composition and its application to the OpenMRS HIS*, Mejia I, Sudholt M, Benavides L. (EMN/Ascola). VariComp'2011, AOSD. 2011.
- *Structured and flexible gray-box composition: application to task rescheduling for grid benchmarking*, Mejia I, Sudholt M (EMN/Ascola). IADIS, Applied Computing. 2010.

GRANTS

- MINEFI (French government) grant for research and doctoral studies 2009.
- Student grant to attend ECOOP'2009 and AOSD'2011.

OTHER

- Open Source: Multiple projects available at github @iemejia.
- Continuous Learning. Various on-line courses (MOOCs): Statistics, Computer Graphics, Functional Programming and Parallel Programming.
- Music: Guitar and drums in a rock band.
- Travel: Share and learn from different cultures.
- Cooking: Organization of culinary events for the Colombian community in Nantes.