

ISMAEL MEJIA

Software Engineer / Architect / IT Consultant

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EXPERIENCE

- 2016- **TALEND**
OPEN SOURCE SOFTWARE ENGINEER | NANTES
- Developed IO connectors and extensions for Apache Beam (Google's open source Big Data framework).
Maintained the Apache Spark runner and became a committer and member of the project management committee (PMC)
Stack: Java, Spark, Hadoop, HBase, Flink, Google Cloud Platform
 - Developer Advocacy for Apache Beam including presentations in multiple venues: KubeCon, ApacheCon, Berlin Buzzwords, etc.
 - Mentored new contributors, reviewed code and worked on community building as well for other Apache projects like Apache Avro.
- 2014-2016 **INDEPENDENT**
IT CONSULTANT | ZOO-LOOP/PIXIE LABS (CO) | REMOTE
- Publicar (CO)
Software architecture and development of a Web Analytics System
Stack: Node, Scala, Hadoop, Hive, Spark (SQL), Amazon EMR, Kinesis
 - Taste Wine Co. (USA)
Software architecture definition and deployment plan on AWS for the back-end system of an automated wine distribution platform.
Stack: Java, Hadoop, MongoDB, Amazon AWS
- 2009-2014 **ÉCOLE DES MINES DE NANTES**
RESEARCH ENGINEER | NANTES
- Researched new approaches to modularize distributed systems.
Published four scientific papers and two prototypes of a language for invasive distributed software composition.
Stack: Java, AspectJ, Javassist, Scala, Spring.
 - Teaching Assistant in core CS courses: 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%, integrated four banks into a single UI.
Stack: J2EE, MS SQL Server, ESB, SOAP, REST, S1 PB, Weblogic, 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.

EDUCATION

- 2006-2008 **UNIVERSIDAD DE LOS ANDES**
Master in Computer Science
- 1996-2003 **UNIVERSIDAD NACIONAL DE COLOMBIA**
Bachelor in Computer Science

COMPUTER SKILLS

PROGRAMMING

Java	Python
Javascript	C/C++
Scala	SQL

CLOUD PLATFORMS

Amazon AWS	Google GCP
Kubernetes	Azure

DATA STORES

MySQL	SQL Server
Oracle	Redis
Elasticsearch	MongoDB
Hadoop	HBase
Cassandra	Kafka
S3/GCS	AWS Kinesis

BIG DATA

Beam	Spark
Flink	Arrow
Avro	Parquet

SYSADMIN

Linux	Ubuntu
Apache	Nginx

MIDDLEWARE

Tomcat	Spring
JBoss	Websphere

WEB TECHNOLOGIES

HTML/CSS	XML/JSON
REST	SOAP/WS

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 approved].

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 / Product 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
 - Big data both on premise with the Hadoop stack, and cloud based with AWS and GCP.
 - Open source development.
 - Full stack development on different platforms/languages. Specialist in Java / JavaEE (JVM).
 - Version Management, Continuous Integration and Programming Methodologies.
 - Public speaking, training and teaching.

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 / AWARDS

- Google Open Source Peer Bonus (2020)
- Talend Community Champion Award (2019)
- 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. ASF member
- Continuous Learning. Various on-line courses (MOOCs): Statistics, Computer Graphics, Functional Programming and Parallel Programming.
- Teaching: Introduction to Big Data course at École Polytechnique de Nantes (since 2017).
- 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.