Mr. Mehdi SI MOHAMMED

Data Engineer & Project Manager
With 10 years' experience

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PROJECT MANAGEMENT SKILLS

- End-to-end technical coordination of projects (from solution design to acceptance and Go-live)
- Organization and animation of workshops to collect client needs
- Functional specifications and scoping notes drafting
- Participation in preliminary and feasibility studies
- Workload management and forecast
- Project committees and steering committees coordination and follow up
- Costing and invoicing
- Solution industrialization documentation
- Optimization of deliverables, schedule and budgeting and deadline management.
- Regular communication with decision-makers
- Solution implementation in accordance with the IS security policy
- Preparation of test cases for technical and functional acceptance
- Management and control of technical environments
- Resource training

TECHNICAL SKILLS

LANGUAGES	JAVA, PYTHON, UML, SQL/PL-SQL, SAS.
BIG DATA/NOSQL	HADOOP, GOOGLE BIGQUERY, HP VERTICA, MONGODB, DYNAMODB, ELASTICSEARCH
FRAMEWORK	WEBSERVICE (CXF, AXIS, REST/SOAP)
ETL	TALEND (TOS, TIS), TALEND DATA QUALITY, TALEND BIGDATA, TALEND CLOUD DATA PLATFORM, TALEND DATA PREPARATION / DATA STEWARDSHIP / PIPELINE DESIGNER, MICROSOFT SSIS.
BUSINESS INTELLIGENCE	MICROSOFT POWER BI, SAS BI SUITE 9.3, SAP BOBI 4.1, ORACLE DISCOVERER DESKTOP/PLUS / VIEWER, KIBANA
SYSTEMS	WINDOWS, LINUX
D.B.M.S	MS SQL SERVER, MYSQL, ORACLE, POSTGRESQL, TERADATA
DEVOPS	GIT, GITLAB, JENKINS, DOCKER, MAVEN, NEXUS
TOOLS	MS PROJECT 2017, ECLIPSE, IREPORT, ORACLE SQL DEVELOPER, DBVIZUALISER
CLOUD COMPUTING	MICROSOFT AZURE, GOOGLE CLOUD PLATFORM (GCP), AMAZON AWS (S3, RDS, ECS, ATHENA, IAM, BATCH, STEPFUNCTION, CLOUDWATCH, …)

HIGHER EDUCATION

2013   Master's degree in Computer Data Exploration and Business Intelligence, University of Paris 13.

2012   Master's degree in Software Engineering, University of Science and Technology Houari Boumediene, Algeria.

PROFESSIONAL CERTIFICATIONS

2013	Talend Open Studio for Data Integration Certification
2014	Talend Open Studio for Big Data training at Talend
2015	Scrum Master / Agile Manager Certification (PSM I) - (SQLI Institute)
2016	Certificate of competence in project management processes and techniques for conducting IT projects in the company – (DAWAN)
2017	Certificate of competence SAP BOBI 4.1 – (DAWAN)
2019	MICROSOFT PowerBi Training
2019	Certificate of competence in ESN management Initiation + deepening – (DAWAN)
2019	Prince2 Foundation & Practitioner Certification in project management – (CEGOS)
2020	AWS Cloud Practitioner Certification
2021	Azure Cloud Fundamentals Certification

PROFESSIONAL EXPERIENCE

Bureau Veritas	**Technical Lead & Rollout Project Manager**

From March 2020 (current): Migration of ETL flows to Talend DI & Deployment of Finance ERP FLEX

Project Description:

I joined the Bureau Veritas ISM Delivery Management team to work on two main topics:

- The implementation of Talend Open Studio ETL solution at BV in an AWS cloud environment, and the migration of all existing SSIS/Datastage flows to this new technology
- As part of the migration to FLEX (a new finance ERP based on J.D. Edwards) in replacement of ZIG, I was responsible for developing the batch or real-time interfaces necessary for its connection to satellite applications

Tasks:

- Scheduling and animation of weekly meetings with rollout managers
- Participation in architecture meetings, progress monitoring, and task prioritization
- Organization of workshops for refining the need and proposing a solution with stakeholders (dev teams, architects, rollout manager, the operations team)
- Assignment of tasks, validation of costings, technical coordination, and follow-up of devs/deliveries during the various rollouts
- Drafting of Talend ETL development standards and best practices
- Design and implementation of the serverless architecture for the execution of Talend deliverables in AWS
- Implementation and drafting of the architecture documentation and the delivery processes
- Support for the dev team (GSSC India) in skills development on Talend and the entire technical stack (Git, GITLAB, MAVEN, Nexus, AWS, etc.)
- Implementation of Talend logs management via AWS Athena service
- Implementation of Liquibase solution for the versioning of SQL database scripts
- Development and delivery of other Talend jobs

Technical scope :
Talend Open Studio, Git, GITLAB, Maven, Docker, Jenkins, Nexus, Axway, Terraform, MyCloud, AWS (RDS, EC2, ECS, ECR, BATCH, STEPFUNCTION, Cloudwatch, Athena, API Gateway…), CFT, Liquibase, PostgreSQL, SqlServer, Biztalk, SSIS, Datastage

Crédit Agricole CIB (CACIB)	Project Manager

From April 2017 to January 2020: Transport zone project (Z3)

Project Description:

This project aims to set up an application allowing the exchange (through CFT) and the quality control of the files of the entities attached to CREDIT AGRICOLE, to make them available to the various consumer applications (OMP, Sharing zone, MADEIRA, …) via a subscription system. The application also had to trace all exchanges, save files, filter them according to several criteria (block, deactivate, or authorize).

My assignment covered three sub-projects:

- Redesigning the existing Talend batch to provide flexibility and scalability
- Redesigning administration HMI and files monitoring system
- Implementation of CFT connections, the approval of flows, and the LSS (live system support) of the application

Tasks:

- Facilitation of workshops to collect and refine needs with application managers and business team
- In charge of functional specification documents (Talend Batches, monitoring GUI and administration GUI)
- Design of the data model and implementation of the migration script.
- Drafting of recipe books and development of test scenarios for the validation of deliverables
- Validation of detailed technical specifications of Talend and HMI developments, code audit and verification of compliance with development recommendations
- Validation of service center costing estimates
- Technical expertise, support for the service center, and audit of the Talend code delivered.
- Technical coordination between service centers and the operations team, management of UAT and applications go-lives + creation of new CFT IDs
- Creation and follow-up of JIRA tickets (camelia) in cases of errors/rejections/incidents, and during technical/functional acceptance
- Standardization and validation of technical manuals for flows description to be produced by the business
- Implementation and documentation of the process for requesting attachment to the transport zone (Documentation and forms)
- Implementation of the flow table, making it possible to list all the files and entities passing through the transport zone
- Implementation of SQL scripts, and XML files for setting up new flows
- Approval of flows with each of the 80 CREDIT AGRICOLE entities, end-to-end validation (sending, receipt, control, provision)

Technical Scope:
MYSQL, TALEND DATA INTGRATION 6.3, ORACLE SQL DEVELOPER, JAVA, LINUX, $Universe

Crédit Agricole SA (CA-SA)	BI Consultant

From April 2015 to March 2017: MADERE Project (LK)

Project Description:

The purpose of this project is to set up a Back Testing solution for the Retail models at the Regional Banks of CREDIT AGRICOLE by repatriating all historical (up-to 9 years) customer account banking data from the 40 regional banks in France then on a monthly basis in a Big Data database named MADERE and based on HP VERTICA solution. The integration of this data was done through Talend ETL tool. This backtesting solution improves the relevance of the modeling carried out by the DRG team (Risk Department).

In order to observe the historical data under homogeneous conditions, it has been partially reprocessed (requalified) along three principles:

- Standardization of default rules throughout the observation period
- Standardization of rating criteria over the entire observation period (application of the latest LUC 2.1 rating model on accounts rated in LUC 2.0)
- Enrichment with precalculated aggregates to accelerate the recalibration process (statistical consistency checks, default probabilities, LGD, EAD, etc.)

Tasks:
- Organization and animation of workshops for collecting and refining the client needs.
- Participation in technical brainstorming meetings concerning the on-demand provision via SAS HPA of VERTICA data to a Hadoop cluster of 6 nodes of the MAPR solution (feasibility, interpretability of SAS requests, flexibility of the tools available in the MAPR distribution: Scoop, Hive, …,)
- Detailed functional specifications, and interface contracts.
- Detailed technical specifications for the validation of the flows received from the cash registers and the automation of their copy from the transport zone (Z3) to the source directories of Talend flows and the PROBE scoring engine through shell scripts.
- Code auditing (deliverables), technical recipe, development recommendations, and proposal for improvements.
- Acceptance/technical and sometimes functional analysis with the client
- Creation and follow-up of evolution/correction tickets
- Development of BT2 data extraction macros scripts on SAS Guide
- Management and configuration of MER and MEP + update of schedules
- High volume 12TB of data distributed over 5 VERTICA nodes

Technical Scope :
HP VERICA, TALEND DATA INTGRATION 5.3.1, MAPR, SAS, SAS HPA, DB VISUALIZER, Linux.

SACEM	Data Engineer

From October 2014 to March 2015: SELECT project

Project Description:
The role of SACEM is to collect royalties for music professionals in France from various broadcasting organizations (radio, TV and others) and theaters, restaurants and other entertainment venues and redistribute them to the artists. The main focus of this project is the data quality, and the optimization of the collection process, calculation and redistribution of royalties.

Tasks :
- Maintenance and implementation of jobs to feed Datawarehouse's fact tables from Oracle E-Business Suite (ERP).
- Optimization of Talend ETL loading flows, and implementation and integration of new business rules
- Audit of data quality and implementation of control rules, regular expressions, and interactive reports to display inconsistencies (duplicates, erroneous values, business errors, etc.).
- Implementation of alerts and error correction of Talend interfaces
- Development of different statements (reports) relating to the situation of interlocutors' accounts, late payments, disputed payments, aged debts, etc.; through the Oracle Administrator and Oracle Discoverer tools.
- Generation deliverables and creation of menus in Oracle EBS.

Technical Scope :
Oracle E-Business Suite (EBS), Oracle Discoverer Desktop, Oracle Discoverer Plus, Oracle Viewer, Talend Data Quality 5.2.1, Linux, Tableau software.

Printemps - Citadium   Talend Engineer

From June 2014 to September 2014: Data flow management of the E-Commerce site (Hybris)

Project Description:
Migration to Talend ETL tool for processing of data that was generated by Hybris CMS (sales, purchases, delivery, transport of goods, and individual orders). All data transformation was done directly in Hybris, which considerably decreased/degrader the website performance/response delay.

Tasks:

- Technical specifications and mapping analysis
- Retrieval, implementation, and maintenance of import and export flows in Hybris
- CSV / XML type source/target files, the output files are deposited in the Hybris hot folder for integration.
- Development of dynamic jobs adapted to all types of files (deliveries, returns, sales)
- Application of the management rules defined in the specifications (order cancellation, lost package)
- Calling web services developed on the Hybris side (generation of Hybris access token, recovery of the export file)
- Customer support in handling TAC for the acceptance tests.

Technical Scope:
Windows, Linux, Shell, Hybris, XML, SOAP, REST, Talend Data Integration

JCDECAUX   Talend Engineer

From February 2014 to June 2014: Microsoft Dynamics CRM interface project

Project Description:
In order to monitor the performance of the company's sales representatives in terms of turnover, a tool called "MyBeez" based on Microsoft Dynamics was developed internally. My role was to setup the different feeding Talend ETL jobs for the tool.

Tasks:
- Detailed functional and technical specifications
- Creation of an interface between the DataMart of sales representatives and the company's Microsoft Dynamics CRM
- Retrieval of salespeople information from the LDAP directory and cross-reference it with information from the DataMart based on transcoding (technical ID, functional ID)
- Application of management rules, aggregations, and detection of insertions and updates
- Integration in the entities (tables) of MyBeez
- Conducting tests in Preprod environment.
- Implementation of a DroolsGovernor business rules engine
- Recovery of drools business rules from Talend with BRMS connectors

Technical Scope:
Linux, Oracle 10g, MySQL, Talend EE for DI, Drools

Cour des Comptes   Talend Engineer

From October 2013 to January 2014: PAIE Certification Project

Project Description:
Implementation of payroll ledger generation jobs for senior French state officials. This processing was previously managed using Perl scripts, and it was decided following numerous developments to migrate to the Talend solution.

Tasks:

- Detailed technical specifications
- Development of jobs for the automatic creation of annual payroll ledgers from positional type source files
- High volume (500 million lines per year), three payroll books (110, 77, and 4 columns)
- Implementation of consistency, completeness and anteriority checks
- Conversion of COBOL amounts
- Creation of execution monitoring tables and alerts
- Tests in Preprod environment
- Implementation of good development practices
- Writing of the production documentation
- Monitoring and management of detected errors and further developments under Fogbugz

Technical Scope:

TALEND EE FOR DI, TALEND ADMINISTRATION CENTER (TAC), ORACLE, SQL DEVELOPER, WINDOWS SERVER 2008, LINUX, SHELL, FOGBUGZ

Altran Research	Big Data Engineer

From April 2013 to September 2013: OASIS project (public health)

Project Description:

In order to fight medical desertification, the company Altran is setting up a decision-making tool intended for health professionals in order to encourage them to settle in neighborhoods lacking practitioners.

Tasks:

- Design and implementation of an Enterprise Service Bus (ESB) architecture
- Design and creation of Data Marts and the database
- Retrieval of geographic, financial, family and quality of life criteria, in the form of CSV files from the INSEE website, and the website of the Order of Physicians
- Transformation of the data according to the specifications of the specifications, and implementation of the Scoring of the regions necessary for the classification of the results
- Development of JAVA routines for Talend
- Set up a job delivery and versioning policy
- Management of alerts and errors of Talend interfaces
- Loading data on the database, the warehouse and on Google BigQuery
- Development of requests through CXF web services
- Development of the web portal of the application
- Development of reports relating to the geographical distribution of doctors by specialty in France.
- Development of reports relating to the use of the tool by health practitioners through fictitious data
- Development of various summary reports
- Deployment of reports on the Jasper server
- Unit tests and support for validation tests

Technical Scope:

TALEND FOR BIG DATA, GOOGLE BIGQUERY, TERADATA, MYSQL, MULE ESB, JASPER SERVER 5.6.0, JASPER SOFT 5.6.0 APACHE APPLICATION SERVER TOMCAT, LANGUAGES: JAVA, HTML, CSS, PHP, JAVASCRIPT, JQUERY