#### **Cs Kumar**

#### **Mobile: +91 – 8747054506**

**Email:** [**cskumar2003@gmail.com**](mailto:cskumar2003@gmail.com)

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**Professional** **Summary**:

1. Having around 12 years of experience in Development in the fields of Big data Technologies,Data science and Data Warehouse Technologies.
2. 3 years of exclusive experience in Data Ingestion ,Data Preparation and Data Analysis by using big data spark and spark ML.
3. Around 10 years of experience in Enterprise Data Warehousing with Ab Initio.
4. Having 1 years of experience in Microsoft dot net technology and sql server.
5. Adequate Experience in Architecting, designing and developing reusable frame works in Big data by using spark and in data warehouse by using Abinitio.
6. Designed and implemented 3 Big data frame works and More than 30 Abinitio projects.
7. Having exposure in extracting IOT data from Cloud IOT Hub by using python and also pyspark.
8. Expertise in ETL methodology for developing Extraction, Transformation and Load processes in dynamic and high volume data environments.
9. Developed 2 POC in Big Data and more than 10 POC in abinitio for complex requirements for clients which will increase performance while processing large volumes of data.
10. Expertise in providing design, Architect and develop solutions for Data Ingestion.
11. Expertise in developing Big Data reusable frame work using pySpark
12. Build models and mechanisms to consolidate and run analytics on the data
13. Provided architectural inputs for reusable frame work both Front end and Back end
14. Expertise in providing solution and developing the Data Ingestion from multiple sources
15. Handling Performance issue of Big Data reusable frame work
16. Provided Best practices to reusable frame work
17. Providing the technical advice on Big Solutions for customers
18. Expertise in Functional Programing Python and Scala
19. Expertise in Spark Core, Spark SQL Spark MLLib,NLP,AI
20. Expertise in using Python Libraries like Pandas, Numpy and matplotlib,Python, HDFS, Spark, Hive, Sqoop, Bline, Hue, Sentry,Yarn, Cloudera Search, Kafka, Oozie, GitHub, Teamcity
21. Having experience in below Data Models using Python and spark.

Regression Analysis – Linear and Nonlinear Regression

Supervised and Unsupervised

Statistical Analysis

Predictive Analytics

1. Train the team on Big data and its Eco systems
2. Strong Expertise in Developing Test Automation tools by using unix shell and python.
3. ALM,version one, Jira, GitHub,EME.
4. Exposure in creating conditional Dmls and worked with large volumes of conditional data with more than 100 record types.
5. Good experience in vectors concepts and implemented all types of vectors.
6. Created Complex Graphs, custom components, Reusable sub graphs using Ab Initio.
7. Worked with continuous components, xml components, Mq queues, Jms queues, web services, micro graph,hadoop,mfs,excel spread sheet components and Meta programing,PDL, Conduct>IT,Micro graphs in abinitio technology.
8. Good Exposure in Abinitio Express>IT, ACE frame works and BRE.
9. Having knowledge in Abinitio Meta data hub and Authorization gateway.
10. Experienced in using Oracle,db2, SQL Server and Teradata databases,
11. Worked with different types of source data like Cobol copy book, xml data, excel data, flat files, data base table data, mq data and jms queue data,json.parquet.
12. Experience in performing multiple roles parallel as part of 100% offshore process as ETL lead/developer, QS lead/tester, Data modeler and shadow Teradata Application DBA.
13. Experienced in managing and working in Azile projects more than 4years.
14. Involved in creating Release test strategy docs, performing SIT and Integration testing.
15. Designed and provided values for abinitio process time and cost estimation tool.
16. Experienced in data modeling by creating small logical and physical data model with Erwin tool.
17. Designed and developed innovative application using Microsoft Dotnet(C# dotnet) as part of Innovative Hackthon held in cognizant.
18. Presented the product demo’s to client.
19. Experienced handling team size of 20-22 members.
20. Received multiple awards and many appreciations from different clients.

**Professional** **Experience**

1. Working as Technical Architect in Alten calsoft Labs from Feb’15 to Till Date.
2. Worked as Senior Associate in Cognizant (CTS), Bangalore from Feb’12 to Feb’15.
3. Worked as SSE in Lnt InfoTech, Chennai from Oct’10 to Feb’12
4. Worked as project lead in Syntelinc, Chennai from Dec’09 to Oct ’10.
5. Worked as consultant in Polaris software labs, Mumbai June’05 to Dec’09

**SKILLS**

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| --- | --- | --- |
| Operating Systems | : | Windows 2000, Windows NT ,Windows 98, Unix |
| Data Warehouse ETL Tool | : | Ab initio GDE,EME,MHub,OC,Express>IT,Informatica. |
| Scripting Languages | : | Unix Shell,Python,java script, VB |
| Programing Languages | : | Python,scala, Java |
| RDBMS | : | Oracle9i,Teradata,db2,SQLServer2000 |
| Modeling Tools | : | Erwin |
| QS Tools | : | HP QC10,ALM |
| Scrum tools | : | Version one,jira |
| Cloud Technologies | : | Microsoft Azure, Amezon EC2 |
| Web Frameworks | : | Play,Scalatra |
| Big Data technologies | : | Spark,Hadoop, Hive, Pig,Kafka,Oziee,Yarn  Hbase, Cassandra,Oziee,Zookeeper, |
| Data science | : | Matlab,R,Python,Scala |
| UI Technologies | : | Angular Js(2,4),HTML |

**Academic Qualification:**

B.Tech (Computer Science &Information Technology) from J.N.T. University.

**Professional Experience:**

**Project #31 : Corals**

Organisation : Alten Cal soft Labs.

Client : Intel, usa

Role : Architect and Developer

Environment : Spark,SparkML,spark streaming, python,scala,IOT,kafka,,Rest web services,HDFS,CDH,Hive,

Teradata,Oracle,Sql server.unix,angular js,Html.

Corals is big data reusable framework with set of libraries/components which provides end to end big data solutions from Data Ingestion to Analytics. It has capability/solution to Ingestion from multiple sources like local, remote , data bases,iot,kafka etc. and it creates the predictive modelling workflow It knows what to do at each step of the process, and does it automatically, without prior programming or manual input from users.

**Responsibilities:**

* Developing Big data reusable framework
* Created Models for data analysis by usingbSpark ML.
* Complete responsible for developing and architecting the Data Ingestions
* Complete responsible for Data Preparation and cleansing
* Developing Machine Learning modules to Coral as per inputs of Data scientists
* Work closely with Data scientists, Hadoop senior Architect to provide solutions
* Architecting, developing end to end solutions for Internal and External customers
* Work closely with Data Scientist to Understand analytical reports
* Customer interactions and co-ordination with onsite teams
* Created to generic pyspark scripts to process streamingdata from IOT,Kafka,rest responses for continuous integrations.
* Created UI for backend process by using html and angulr js.
* Executed below Data Models using Python and spark ML.

Regression Analysis – Linear and Nonlinear Regression

Supervised and Unsupervised

Statistical Analysis

Predictive Analytics

**Project #30 : iDWB EOL**

Organisation : Alten Cal soft Labs.

Client : Intel, usa

Role : Architect and Developer

Environment : Spark, python, HDFS,CDH,Hive,Abinitio,Teradata,Oracle,Sql server.unix.

iDWB EOL is big initiative to convert Robust windows application to bigdata which is around 4000 jobs .The existing system is tera data application which runs on windows server. As part of this initiative we converted the existing system to Bigdata which runs on unix server by using pyspark ,scala, spark,web service,ehive,hbase,hdfs .

**Responsibilities:**

* Developed Big data reusable framework to convert 134 Subject areas from windows to bigdata.
* Complete responsible for developing and architecting the Data Ingestions.
* Complete responsible for Data Preparation and cleansing
* Work closely with Data stewards, Hadoop senior Architect to provide solutions
* Architecting, developing end to end solutions for Internal and External customers
* Work closely with Data Scientist to Understand analytical reports
* Customer interactions and co-ordination with onsite teams
* Executed below Data Models using Python and spark ML.

Regression Analysis – Linear and Nonlinear Regression

Supervised and Unsupervised

Statistical Analysis

* Predictive Analytics

**Project #28 : HPMS**

Organisation : Alten cal soft labs.

Client : catamaran , usa

Role : Designer and developer

Environment : Spark core,sql,streaming, Scala, HDFS, casandra, kafka,unix.

HPMS is Healthplan  management system .It will have data to support Long term care both Formulary and non formulary cost and utilization in comparison with retail pharmacies cost and utilization for the submitted time frame.This project extracts  data from oltp system to generate the reports to analyzethe pharmacies and claims. Reports generated is very useful in knowing the claims across different regions along with pharmacies Id. The report is run once in six months time .

**Responsibilities:**

* Involved in design and development of existing currunt abinitio project transforming in bigdata technologies .
* Assisting the team for technical problems and helping them while preparing complex logics.
* Knowledge sharing session to the team on Bigdata technologies.
* Involved in Design, coding, UTC and UTR reviews.
* Supporting the QA team.
* Presented product demo’s in dev environment.

**Project #26 : Mobile Audit logging Re Design**

Organisation : cognizant technology solutions.

Client : capital one , usa

Role : Tech lead.

Technologies : Abinitio, spark,scala,hive, Unix, oracle, Ozie, yarn.

Capture customer activities on Capital One Mobile applications. This data is used by the Business to Analyze Performance of the mobile applications and also to develop Business strategies. It has multiple interfaces. Few of them are listed below.

RDC, OLBR, ETS-Enhanced transactions, EOS, Credit tracker.

**Responsibilities:**

* Involved in design and development of existing currunt abinitio project transforming in bigdata technologies .
* Assisting the team for technical problems and helping them while preparing complex logics.
* Knowledge sharing session to the team on Bigdata technologies.
* Involved in Design, coding, UTC and UTR reviews.
* Supporting the QA team.
* Presented product demo’s in dev environment.

**ABINITIO PROJECTS:**

**Project #25 : NGTB-EJ**

The main goal of the NGTB project is to switch from the TP Teller System to the Argo System.NextGen Teller BIC (NGTB) program will implement the Argo’s Teller Payments solution replacing the current Touchpoint Teller 8.3 and BancStar solutions in the branches.

New functionality provided by Argo’s Teller Payment solution will move the activity of scanning items to the teller line and eliminate the need for couriers to move the paper to various processing centers daily. The Argo solution transmits images of paper items to a central processing center where data perfection, transaction balancing, adjustments and special item handling for branch transactions will be performed by Deposit Operations.

**Project #24 : ATM Check deposit**

ATM Check deposit comparison report is a Business critical report to ensure customer deposits post to customer accounts properly. Considering the time sensitive of the report and the BDW NFRs, the request was to use data from ODS so the corrections can be made to customer accounts by the Adjustments Team in a timely , consistent manner. The ATM Operations Team works with Adjustments (central operations) Team to determine what if any adjustments need to be made to customer accounts.The Project aims to capture all ATM transactions data to ODS.BI team will then utilize this data to generate report to identify transactions where check deposit amount don’t match between Visison IP and Vantiv file.

**Project #23 : PNGB**

The scope specifically is to remove the architectural exception for housing CIP data from OAO and TouchPoint Contacts in an analytical warehouse by moving the data to the ODS.

**Project #22 : Credit path**

In order to meet Basel guidelines, the bank must fully calculate Risk Weighted Assets (RWA) for capital contribution. One of the inputs to RWA calculation is Exposure At Default (EAD) which will directly affects the bank's capital contribution. ODS performs EAD calculation and creates the output file to the Basel data store which will be consumed by RWA calculator.

Solution to calculate Exposure at Default (EAD) as required by Basel II for all Small Business and commercial Banking loans, leases, letters of credit and overdraft facilities housed in the some of the accounting source systems .

**Project #22 : Isotope**

Project Isotope is a foundational Small Business Banking project in which variants of checking accounts and services will have different value propositions for our customers. A new Relationship Pricing process will be introduced with this project. This will allow the business to include all Capital One accounts and services owned by the customer, as well as incorporate additional customer records to be incorporated in the relationship.

**Project #21 : Customer dailer Intencity**

The project aims to move the existing Seg 9, Seg 10 Collections dialer file processing from OPS DDE to MVS.It also strives to achive selection of single account per customer in Collections as per the Rules defined by the business

**Project #20 : iModel- Bankconsumer sheshunoff**

This project is being developed as part of Capital One and the objectives of iModel- Bank consumer sheshunoff replacement are Migrate all Overdraft Limit decisioning from Sheshunoff and IMPACs (Autopay) to an internal model,Once the migration of decisioning has been completed, Sheshunoff will be decommissioned,Overdraft Letters currently generated by Sheshunoff will be generated by IMPACs

**Project #19 : Payment Stabilization**

The main business objectives of Payment Stabilization project are 1.Improve efficiency and accuracy of the Credit Protection benefit calculation and payment process2.Ensure accurate and timely payments of benefits to Customers per current SLA 3.Capture Benefit calculation and payment data for Analytics and Monitoring.

**Project #18 ; MBDP Release 3.0**

MBDP Release 3 is to provide data attributes required to build the imodel. The scope for release 3 includes the fields for returned item model and imodel 2.0.This includes data from multiple source systems like Early Warning System (EWS),Teller Transaction Detail from Touchpoint,Account Balance Chargeoff data from RMS,Billpay subscriber & payment history data from Fiserv,Stop hold transaction detail from IMPACS.

**Project #17 : Kohl’s FDR**

The objective of Kohl’s FDR project is to support the infrastructure required to serve the capital one partners and to cater the operational data needs for the compliance IT and Finance IT platforms. Conversion to the new platform will allow flexibility to grow and manage the portfolio, in addition, the compliance control environment will be improved and COF original financial reporting requirements will be satisfied.

**Project #16 : MBDP Release 2.5**

MBDP release 2.5 is to provide SEAM with account balance data aggregated at the customer level and also provide the information if a customer is a credit card or a lending account holder for all the customers who hold a DD account.

**Responsibilities For project 16-25:**

* **Involved in Business Requirements, Analysis, Estimations, Development and Implementation.**
* **Involved in SR, HLD,DL and implementation plan preparation..**
* **Involved in Development of complex graphs.**
* **Assisting the team for technical problems and helping them while preparing complex logics.**
* **Provided advanced abinitio trainings for the team.**
* **Involved in Design, code, UTC and UTR reviews.**
* **Supporting the QA team.**
* **Created re-usable graphs which can be used across the enterprise.**
* **Created multifunctional custom components.**
* **Created frame works which will avoid multiple scheduling jobs.**
* **Did performance tuning for existing jobs and suggested the various options.**
* **Involved in time sheet validation and forecasting expected hours for the projects for future period.**
* **Involved in Resource management activities such as Time sheet, attendance, leave, appraisal, task allocations of resources and also preparation of SLA trackers.**
* **Worked as delivery lead for BANK and CARD Business units.**

#################### **LnT Infotech Projects** ####################################

**Organisation  : LnT infotech.**

**Client : CITI group , usa**

Role : Tech lead

Environment : Ab inito 1.16, UNIX, Windows, oracle91, Autosys

##### **Project #15 : SMA-MOTO-FD/FX**

A separately managed account (SMA) is an individual managed investment account offered typically by a brokerage firm through one of their brokers or financial consultants and managed by independent investment management firms (often called money managers for short) and have varying fee structures and MOTO stands for middle office and trade operations. With this project we will validate fixed deposits, forex, and derivative trades’ transactions. This process mainly compares client and broker trades, implements business transformations then process it to end user. It is continuous process which runs 24/5.

##### **Project #14 : SMA-MOTO-generic MQ process**

A separately managed account (SMA) is an individual managed investment account offered typically by a brokerage firm through one of their brokers or financial consultants and managed by independent investment management firms (often called money managers for short) and have varying fee structures and MOTO stands for middle office and trade operations. This project is generic process which will validate the incoming trades, changes its structure and process the same to corresponding MQ queues.

##### **Project #13 : SMAMOTO-Pio**

A separately managed account (SMA) is an individual managed investment account offered typically by a brokerage firm through one of their brokers or financial consultants and managed by independent investment management firms (often called money managers for short) and have varying fee structures and MOTO stands for middle office and trade operations. With this project

We have developed complete process for its client pioneer which includes key functions like Trade capture, Trade validation, Trade enrichment, custodian communication, broker communication.

##### **Project #12 : FSR- Exception process**

Fund Services Reporting is an application that generates reports/extracts for Citi's Fund Accounting System. The users of the application are the Fund managers / Account managers. Using the application, these users can generate different "End of Day" and "Intraday" reports / extracts for multiple accounts.All the extracts are generated using Abinitio and DB2 as the backend.Reports/extracts can also be scheduled or customized using the application. Once the SOD/EOD then this exception process will be validating the same files and generating the exception records and finally this process will consolidate all the exception files and sends a consolidated mail for SOD/EOD separately for calomos client.

##### **Project #11 : Stat pro-DFA Mandatary corporate actions**

StatPro Group Plc is provider of asset valuation services and portfolio analysis solutions for the global asset management industry. Citigroup was one of the most valuable Custodian and administrator of StatPro. StatPro offers a web-based platform of analytics tools, including Performance Measurement, Attribution Analysis for Equity and Fixed Income, Risk Management ,which is a pure cloud based portfolio analytics platform for front office professionals providing instant analysis and reporting. with this project we will be providing the mandatory corporate actions files for its client.

**Project #10 : IAS-Calomos Extracts**

Citigroup's Investment Administration Services (IAS) provides technology and operations services to professional investment clients. Investor report generation and distribution is an integral part of the investment clients business requirements. In order to properly serve the investment clients, IAS will integrate the reporting solution into the platform as a means for producing and distributing investor reports for our investment manager's clients.

This project describes the processing of client extract reporting. this process generates extracts for EOD  transaction data and with SOD extracts for Calomos client for the following extracts(Accounts, Positions, Transactions, Tax-Lot, Cash Balance, Valuation, Corp Actions...)

**Project #9 : SMA-download--Upload frame work**

Main objective of the upload frame work is to upload files from current server to different server in SMA related projects based on the configuration file. This process is a combination of UNIX shell script and abinitio generic graphs which helps to reduce manual interaction.

**Responsibilities for project 9-15:**

* **Developed number of AbInitio Graphs based on business requirements using various AbInitio components.**
* **Involved in design, development and impact analysis.**
* **Prepared design and technical specification and support docs.**
* **Done unit testing and supported to SIT , UAT and prod.**
* **Involved in client interaction on daily basis.**
* **Worked with continuous components like continuous join with db,continuous roll up,continuous scan,Continuous update table components.**
* **Used Mq subsribe,Mq publish,subsribe,publish to extract and load data.**
* **Used various Translate components like Read Xml,Write Xml,Xml Reformate,Xml split to translate xml messages .**
* **Involved in client interaction on daily basis.**
* **Prepared conditional dmls as per the new record layout.**
* **Worked with csv,xls,dat files.**
* **Created conditional graphs based on the file extension.**
* **Worked with incorporating the graphs with common frame work which will be used for fund share reporting.**
* **Updated existing functions which will move the files between multiple servers.**
* **Prepared new generic functions to upload files from current server to other server by using SFTP,SFTP2,citisft,scp,ftp… utilities.**

**####################Syntel India pvt ltd projects ##############################**

**Organisation  : Syntel india Pvt Ltd.**

**Client : American Express, usa**

Role : Tech lead/Developer

Environment : Ab inito 1.15,1.14 UNIX, Windows, db2, Control-M

**Project #8 : Tsys DEF(oct’10-release).**

The Data Exchange File (DEF) is a data format definition designed in-house at TSYS®.  The file is variable by record length (1800) and is used to send raw data of account information to Issuers and their corporate clients.  The integration of the data and multiple records supplied by the DEF gives the issuer the flexibility to support global data warehouses or build competitive reporting products that exceed industry standards. As changes to the DEF format have an impact on TSYS® clients, enhancements to DEF are made only twice yearly one is in April and the rest is in October.

**Project #7 : DEF-CM Reference*.***

This project is initiated to load after implementing the business requirements to CM reference data into the profile and transaction tables from tsys def input files to avoid gaps between Def and CM reference related tables. so the downstream system which will be generating the reports can be generated perfectly and the same will be delivered to the client.

**Project #6 : Siemens car folio.**

Siemens requires AMEX to produce a car folio monthly file after cycle cut, roughly on the 9th of every month. The existing process is manual. The purpose of this project is to productionalize the existing manual process of generating monthly files for Siemens through adhoc Abinitio scripts and change the delivery directory from Travel directory to Card directory and to create an automated IMR/support process to create alerts in case of failures. This project will deliver an automated system through which the required Siemens files are generated regularly every month. Automation is achieved through this process which will improve the efficiency and productivity.

**Project #5 : Tsys DEF(April’10 release).**

The Data Exchange File (DEF) is a data format definition designed in-house at TSYS®.  The file is variable by record length (1800) and is used to send raw data of account information to Issuers and their corporate clients.  The integration of the data and multiple records supplied by the DEF gives the issuer the flexibility to support global data warehouses or build competitive reporting products that exceed industry standards. As changes to the DEF format have an impact on TSYS® clients, enhancements to DEF are made only twice yearly one is in April and the rest is in October.

**Responsibilities for Project 5-8:**

1. **Prepared conditional dmls as per the new record layout.**
2. **Developed number of AbInitio Graphs based on business requirements using various AbInitio components.**
3. **Involved in design, development and impact analysis.**
4. **Prepared design and specification docs.**
5. **Done unit testing and supported to QC.**
6. **Taking care of End-to-End flow starting with requirements gathering.**
7. **Worked with mail components.**
8. **Prepared wrapper scripts.**
9. **Involved in implementation and supported for post validation.**

################### Polaris Software labs projects #################################

**Organization : Polaris software labs, Mumbai**

**Client : Citi Group, usa**

Role : AbInitio Developer

Environment : Ab inito GDE 1.15,1.14,1.13 UNIX, Windows, Oracle 9i

##### **Project #4: GIW-ELF(enterprise error logging frame work).**

The main aim of the project is to maintain centralised logging system to all process those which are running on GIW server. This project is used to log all the rejects and log information related to abinitio process across GIW server.this process will be loding the information in jms queues.ELF console, which will collect the info and load in the dash board. So the user/higher management can easily identify the log information of the process.

**Project #3: Phoenix-Whitelable.**

Project Phoenix is a white label project to deliver a global cash management E-banking platform to Barclay’s Bank . The Phoenix programme was initiated in 2007 to address the need for a market-leading channel enabling the delivery of a range of products and services to Barclays Global Commercial Bank customers. Phoenix aims to bring the Global Commercial Bank’s online offering in line with the leading global banks.

**Project #2: GIW-Securities**

The project focuses on the data integration process for maintaining information in the Security Master subject area within the near real time Global Information Warehouse (GIW) database. The Security Master subject area of GIW provides a consolidated reference for securities traded worldwide, and will be housed in the ECIF schema of the GIW. This new subject area provides more flexibility for defining and identifying new securities from internal and external systems, and also provides a comprehensive set of attributes from all securities sources to multiple applications within Citigroup. In addition, the data will be integrated with a prioritization and hierarchy of security information defined by the business.

**Responsibilities for 2-4:**

1. **Development of Ab Initio graphs by using various components.**
2. **Worked with continuous components like continuous join with db,continuous roll up,continuous scan,Continuous update table components.**
3. **Used various Translate components like Read Xml,Write Xml,Xml Reformate,Xml split to translate xml messages .**
4. **Used JMS subsribe,JMS publish,subsribe,publish to read and write data.**
5. **Used Mq subsribe,Mq publish,subsribe,publish to extract and load data.**
6. **Developed number of AbInitio Graphs based on business requirements using various AbInitio components such as Partition by Key, Partition by round robin, reformat, and rollup, join, scan, normalize, Demoralize, gather, replicate, and merge.**
7. **Developed generalized reusable sub graph and graphs for error log handling .**
8. **Created custom components for the frame work.**
9. **Worked with ISO20022 Xml messages.**
10. **Created Xml schemas for source data.**
11. **Created user defined transform functions for ELF.**
12. **Implemented latest features like conduct>It,PDL.**
13. **Development of dependency graphs that would handle the specific order of the**
14. **Processing where one load process has to be started only after completion of**

**Another load process.**

1. **Development of Bridge graphs that acts as a bridge to the GIW Securities**
2. **Processing and CDS2(Downstream) system’s Loads processing.**
3. **Handled continuous processing/intraday processing.**

**Project #1: HRMS**

Client : Hindustan Lever ltd, india

Role : Dot net Developer

Organization : Polaris software labs, Mumbai

Environment : Dot Net 1.1, Asp.Net, Ado.Net, C#.Net, SqlServer2000.

**Description :**

Moves and Promotion:

Moves and Promotion is one of the modules in HRMS (Human Resource Management System) In Movement process there is two types of moves one is normal move The second one is Move with promotion. After finishing the plan the move is confirmed by the higher categories, which are defined by the workflow.

Confirmation:

In every organization for a new joined employee has a probation period. After completion of the period the team lead will get the request for the confirmation of a particular employee. In this there is 3options are there first one confirm, it’s a normal confirmation. Second one confirms with promotion, and Extend probation.

Responsibilities:

1. Involved in All the three layers (Presentation, Business, Data layer).
2. Involved in development.
3. Prepared documentation, mentored programmers on technologies.