**Spark\_Scala\_Python\_AbInitio\_Unix\_SQL\_14Years\_6Months**

**Saravanan B**

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Career Objective

To work in a creative challenging environment where I could constantly learn and successfully deliver solutions to problems in an efficient manner. Also, I’m passionate to share knowledge with everyone.

Summary

* 10+ years of experience in providing ETL solutions using Ab Initio and relational databases such as Oracle & Teradata in Banking & Financial Services domain.
* Expertise in Data Warehouse/Data Mart ETL design & end to end knowledge on Bill Inmon/Ralph Kimball approaches.
* Expertise in Ab Initio Architecture, Dynamic programming & UNIX shell scripting.
* Experience in Data Lake Data Ingestion/Consumption using Hadoop components.
* Have good experience in Real time data processing using Continuous Flows Components in Ab Initio.
* Have good exposure to Conduct IT, Control Center, Metadata Management (EME), Enterprise Metadata Hub(EMH), Metadata Portal, Query IT, Express IT in Ab Initio.
* Have good knowledge in developing generic graphs & components using Ab Initio that can be reused across the applications.
* Have good exposure to Mainframe, Oracle, DB2 and Teradata.
* Have good exposure to Python libraries for Data Science, Machine Learning & Data Visualization tools such as R & Tableau.
* Have good exposure to Spark architecture, Scala programming & Big data applications such as HIVE, Impala, Yarn.
* Hard working, highly motivated, quick learner and extremely versatile. Accepts responsibilities and job duties eagerly.
* Possesses very good communication skills, good team player and individual contributor.
* Received client appreciation for delivering code with minimal defects.
* Received appreciation from senior management for developing out of box solutions.

Skills

Technology Ab Initio 2.15/3.0.4/3.1.4/3.2.9/3.3.5/3.5/4.0.3/4.0.6/4.1.6.2, Big Data - Hadoop, Apache Spark

Programming Languages Python, Scala, DML in Ab Initio, UNIX Shell Scripting.

Databases Oracle, Teradata, DB2, Sybase IQ, SQL Server, HIVE, Impala

Visualization Tools R, Tableau

Operating System Linux, UNIX, Windows XP/Vista/7/10

Scheduler Yarn, Autosys, Ab Initio Control Center, TWS

**Certifications**

* Completed Ab Initio Graph Developer Professional Certificate on 9th Sep 2024.
* Completed Global Certificate in Data Science & Artificial Intelligence in Accredian from Mar 2022 to Feb 2024. [ https://res.cloudinary.com/djxxtwy8k/image/upload/v1719842031/Certificates/pcip31ckraiijahkcf29.png ]

**Work Experience**

* Working as AVP in **Citicorp Service India Pvt Ltd, Chennai** from 28th Oct 2019 till date.
* Worked as a Senior Technology Specialist in **Wells Fargo, Bangalore** from 6th Sep 2016 till Oct 25, 2019.
* Worked as a Senior Software Engineer in **Euclid Innovations, Bangalore**till getting approvals for FTE positions in Wells Fargo from 28th March 2016 till August 26,2016.
* Worked as a Consultant in**Polaris Consultancy & Services Ltd, Chennai** from 09thDecember 2013 till March 21,2016.
* Worked as Programmer Analyst in**Cognizant Technology Solutions Pvt. Ltd, Chennai** from 30thSeptember 2010 till 28th November 2013.

Project Details

**Project #1**

Title Genesis Migration to Olympus

Project Type To migrate ETL jobs which loads data to Genesis Data Warehouse to Olympus Data Warehouse.

Operating System Linux

Technology Spark/Scala, Cloudera Hadoop, HIVE, Impala, Yarn

Team Size 6

Role Technology Lead

Period Jan 2025 - Till Date

Project Objective

Olympus gets data from Product Processors & sends the contracts/balances data to Genesis currently. As part of regulatory commitments to make Olympus as a golden source for Wholesale contracts & balances data, ETL logic used in Genesis to deliver the contracts/balances related data to downstream consumers have to be implemented in Olympus.

Project Description

Olympus technology team uses Spark capability for data extraction, performing data quality checks, data transformation & data lineage. Olympus team has frameworks such as Data Conduit (DC) & Step to load the Contracts/Balances data into HIVE data warehouse. Once data gets loaded into HIVE, it will get delivered to downstream consumers like Treasury/RRAI/Optima/Ruby etc. via Consumption API. Olympus team integrates Genesis Wholesale products in a phased manner into Olympus Data Warehouse.

##### Role and Responsibilities

* Involved in Design Discussion on getting ISG MAC data to Olympus, OTC supplemental products such as TCC, TCR migration.
* Development of Scala code to read JSON response files from ISG MAC & load it into HIVE tables created in raw layer.
* Version control using Bit Bucket repository.
* Build & deployment using Jenkins, udeploy & Light speed.
* Scheduling using Autosys.

**Project #2**

Title Genesis Wholesale Data Warehouse

Project Type To Load Wholesale Product Processors, General Ledger data into Genesis Data Warehouse.

Operating System UNIX

Technology Ab Initio 4.0.3, Netezza/Oracle

Team Size 22

Role Technology Lead

Period Oct 2019 - Till Date

Project Objective

Citi has invested around X.Y million dollars in its core financial, risk and regulatory MIS since 2009. Citi has decided to build a strategic solution to design Enterprise wide contracts & balance Data Warehouse (Genesis). Genesis Data Repository that serves as golden source designed to provide contracts/balances related data linked to ledger balances of banks books & records with the measured quality to Risk, Finance & any other business unit.ABC Wholesale banking serves customers with 14 Wholesale products which acts as a source for building Genesis Data Warehouse.

Project Description

Citi Wholesale banking technology team uses Ab Initio capability for data extraction, performing quality checks, data transformation, date obfuscation &data lineage. Genesis team builds a framework on Ab Initio which can be used across 1500+ source feeds from Product Processors & General Ledger to load the contracts & balances from different sources into Genesis Data Warehouse. Then, consumption team creates subscriptions at a product level for each region to downstream consumers like Treasury/RRAI/Optima/Ruby etc.

##### Role and Responsibilities

* Involved in Design Discussion on building a framework for Netezza to Oracle migration.
* Lead/Coordinated development/SIT/UAT/PROD support team for successful deployment of development/enhancement projects.
* Enhancements to existing Ab Initio framework plans/graphs.
* Development of new Ab Initio framework plans/graphs based on requirement.
* Development of regression reconciliation utility using Ab Initio for data comparison while migrating data from Netezza to Oracle.
* Data Imports/Exports using Enterprise Metadata Hub.
* Fixing dependency analysis for viewing data lineage using EMH(Enterprise Metadata Hub)
* Build & release management using Agile methodology.
* Code Review & Promotion.

**Project #3**

Title Counterparty Risk System(CoRS)

Project Type To Load data from Traded Products Domain into CoRS Data Warehouse

Operating System UNIX

Technology Ab Initio 3.3.5, SQL Server

Team Size 10

Role Senior Consultant

Period Aug 2018 –Oct 2019

Project Objective

Financial institutions can be impacted by credit events experienced by its trading partners (counter parties). Credit events most commonly feared are defaults on obligations and bankruptcies, but also include downgrades in public credit ratings for a company or a country. CoRS is a Counterparty Risk Management system developed in-house for Wells Fargo to asses/calculate Counterparty Risk Exposure &Limit Management which replaced the existing Sun guard Adaptive platform.

Project Description

Well Fargo’s CoRS DIDQ (Data Integrity & Data Quality) team uses Ab Initio capability for data extraction, performing quality checks, data transformation& data lineage.CoRS DIDQ team builds a framework on Ab Initio which can be used across 30+ SORs(System of Records) to load the data from different sources into CoRS Data Warehouse. Then, services team calculates Credit Risk Exposure like PFE, EPE, etc.& Limits utilization using Java. The data can be reported using Web based portal to business users.

##### Role and Responsibilities

* Design Discussion with TA & Technology Architects.
* Generic & application specific graphs/plans development.
* DQE configuration/BRE rulesets creation using Express IT.
* Fixing dependency analysis for viewing data lineage using EMH(Enterprise Metadata Hub).
* Build & release management using Agile methodology.
* Unit Testing, Code Review & Promotion.
* Scheduling Jobs in Autosys.

**Project #4**

Title Volcker Metrics Detail Reporting

Project Type To load data fromTraded Products Domain into Volcker Datamart

Operating System UNIX

Technology Ab Initio 3.2.9, Sybase IQ

Team Size 5

Role Senior Consultant

Period Mar 2016 –Jul 2018

Project Objective

The Volcker Rule, part of Dodd Frank Wall street Reform prohibits banking entities from engaging in proprietary trading and making investments and conducting certain other activities with private equity funds and hedge funds. As part of regulatory reporting, Wells Fargo Securities decides to report Volcker metrics in risk management, P&L sources & trading activity.

Project Description

Wells Fargo Securities decides to consolidate the trading data from different internal/external system. WFS leverages Ab Initio capability to consolidate the data from different systems into Sybase IQ database. The data from different source systems are normalized into trades, positions & prices which are used for VMDR metrics calculation. VMDR metrics calculation is carried out in Java & reported through a Dot Net user interface to business users.

##### Role and Responsibilities

* Requirements Gathering & Design Discussion.
* Generic & application specific graphs/plans development.
* Testing, Code Review & Promotion.
* Scheduling jobs using Autosys.

**Project #5**

Title Deal Synch

Project Type To process real time data & load it into Brokerage Datamart

Operating System UNIX

Technology Ab Initio 3.2, DB2

Team Size 5

Role Senior Developer

Period Oct 2015 - Mar 2016

Project Objective

Ipreo generates a daily report for Citi group that includes small & customized set of Deal data. In order to streamline and automate the deal data from Ipreo to Citi, Ipreo has built a commercial Retail Deal synch Integration channel that will be available for retail client consumption so that they can use it for their internal reporting purpose.

Project Description

Retail Deal Synch aims to capture and share all deal, product, tranche, order & trade related data on a real time basis through message queues. Citi has built a message queue which will read the data from the Ipreo message queue. The XML data from Citi MQ will be processed by Ab Initio on a real time basis and loaded into Brokerage Datamart tables so that it can be used for reporting using Business Objects.

##### Role and Responsibilities

* Developed generic graph to process real time XML data using continuous flows components in Ab Initio.
* Developed generic graph to generate surrogate key and load data into the target table.
* Unit Testing in development & Integration Testing in UAT.
* Code Review.
* Code Promotion by creating tag and save files.
* Creating JIL's for Scheduling Jobs in Autosys.

**Project #6**

Title Citi Private Wealth Management Application

Project Type To build a Brokerage Data mart for Data Analytics

Operating System UNIX

Technology Ab Initio 2.15/3.2, DB2

Team Size 7

Role Senior Developer

Period Dec 2013 - Sep 2015

Project Objective

Citi Bank has made a strategic decision to outsource its back office and settlement operations to Pershing LLC. Citi group Private Wealth Management division partnered with Pershing to replace the existing Morgan Stanley Smith Barney Data storage systems.

Project Description

Citi Private banking back office and settlement operations are outsourced to Pershing and the data is stored in Pershing system. Then the data from the Pershing will be sourced, transformed & loaded into the CPWM Brokerage data mart. After the data is loaded into the data mart, it will be used to generate reports using Business Objects. 

**Role and Responsibilities**

* Developed reusable graph to read the data from atomic store built on Hadoop.
* Enhancement of existing graphs using Ab Initio.
* Unit Testing in development & Integration Testing in UAT.
* Involved in Unix AIX server migration.
* Upgraded Ab Initio objects from Co Op 2.15 to 3.2.
* Code Promotion by creating tag and save files.

**Project #7**

Title Master Data Management

Project Type Build a Master Data Management solution

Operating System UNIX

Technology AbInitio 3.0.4, Oracle 11g

Team Size 5

Role Developer

Period Jan 2013-Nov 2013

Project Objective

Key Bank does not have the MDM solution that meets enterprise needs, a problem recognized by multiple lines of business, functions & strategic initiatives. So, Key Bank planned to build an MDM solution which is a critical component to an effective data supply chain.

Project Description

##### Key Bank maintains the master information in the Hogan based CIX system currently. The existing system contains the multiple versions of same party which will lead to Data inconsistencies & Merger/Acquisition inefficiencies. The current system has the inability to support multiple roles of a customer on account, to support multiple hierarchies, to represent entire party cycle (i.e. Prospect -> Customer ->Attired Customer). In order to overcome the issues in maintaining the master data, Key Bank planned to implement MDM solution. IBM’s MDM Batch processor is utilized by the Key Bank to build the Master database in the Oracle. As part of this initiative, the customer related information from different source systems are extracted, data cleansed using Trillium & transformed as XML’s using AbInitio which will be processed by the MDM Batch processor.

##### Role and Responsibilities

* Involved in Design Discussion.
* Developed application specific graphs &generic XML creation Utility to create XML files.
* Fixing Dependency Analysis.
* Unit Testing&Code Review.
* Scheduling Jobs in TWS.

**Project #8**

Title Lease Entity Business View

Project Type Build a DW using IBM’s BDW model

Operating System UNIX

Technology AbInitio 3.0.4, Teradata 13

Team Size 5

Role Developer

Period Jan 2011 - December 2012

Project Objective

To develop an IBM Banking Data Warehouse for the Key Bank leasing system in Teradata which is required by the Key Equipment Finance division to generate Lease detail report for risk related activities.

Project Description

Key Bank planned to build a Shared Foundation Data (SFD) on Teradata which will replace the existing EDW on DB2 over the time. Shared Foundation Data is a Data Warehouse where data from across the bank is conformed to a common definition & data type. IBM’s BDW model is built incrementally for this purpose & deployed in Teradata. The source file from the atomic store is transformed to target specific common format (Canonical Layer). Then, generic ETL logic based on subject area will move the data to the target Shared Foundation Data. Business users will then build the report on the views built on the Teradata for their analytics.

##### Role and Responsibilities

* Involved in design discussion with peers.
* Developed generic components such as Surrogate key generation, SCD History Management, Remove Duplicates.
* Developed application specific graphs, subject area specific generic graph to create the load ready files & generic load graph to load the Teradata using AbInitio.
* Implemented Indexed Compressed Lookup while creating the Surrogate key Lookup file.
* Fixing Dependency Analysis for Data Lineage to Metadata Portal.
* Unit Testing&Code Review.

Educational Qualifications

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| **Graduation** | Qualification | Bachelor of Technology | |
| University | Anna University, Coimbatore | |
| College | Coimbatore Institute of Technology | |
| Branch | Information Technology | |
| Period | 3 years | |
| **(CGPA)Aggregate** | 8.31 | |
| **Board Exams** | Course | **Class X** | **Diploma in EEE** |
| SSLC | Electrical & Electronics Engineering |
| Board of Study | State Board, TN | DOTE, TN |
| Percentage Secured | 95.6% | 98.08% |
| Institution | KVS Hr. Sec. School, VirudhuNagar. | VSVN Polytechnic College, VirudhuNagar. |

Capstone Projects

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| --- | --- | --- |
| **Title** | **Technology Used** | **Duration** |
| Exploratory Data Analysis on Credit Card Dataset to identify churners | Python libraries such as Pandas, Numpy, Matplotlib, Seaborn | Nov 2022 |
| Machine Learning classification model development & testing for predicting telecommunication churners | Python libraries such as Scikit-learn, TensorFlow, Pandas, Numpy, Matplotlib, Seaborn | Apr 2023 |

*I hereby declare that the information’s furnished above are true to the best of my knowledge.*

Place: Chennai Best Regards,

Date: 04/16/2025 Saravanan B