**Haitao Yu**

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**Summary:**

* **Senior Software Engineer with 13 years of experience in software development under UNIX environment**.
* **More than 10 years of experience of database applications development including 8+ years of professional experience in data warehouse design and implementation using Ab Initio and database.**
* **Hands on experience of designing and implementation dimensional tables and facts tables.**
* **Hands on experience with all Ab Initio components. Strong at ETL design.**
* **Skilled with Ab Initio performance tuning techniques.**
* **Skilled in designing high performance ETL and Data Warehousing solutions.**
* **Thoroughly understand the techniques and philosophy in <<*The Data Warehouse Toolkit*>> of Ralph Kimball and Margy Ross.**
* **Passed three oracle certified developer tests: a. Introduction to Oracle: SQL and PL/SQL. b. Develop PL/SQL Program Units. c. Development/2000 Forms. PL/SQL.**

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| * Ab Initio GDE,  Cooperating System, EME * Dimensional modeling. * **Control m** for job scheduling * ECM, WRM, Peregrine Ticket**.** * UNIX C/C++, UNIX Shell Script, Perl, CGI, Html, XML, | * UNIX C/C++, UNIX Shell Script, Perl, CGI, Html, XML. * Full Software Development Life Cycle * DB2, ORACLE. C, PL/SQL, stored procedure, Designer 2000. |

**EXPERIENCE**

**SHIETION TECHNOLOGY, IL                                                                       Oct 2016 – Aug 2017**

**AWS Cloud Engineer**

Certified AWS solution architect, sysops and developer (associate level)

**Used AWS Codedeploy Service for Continuous Code Deployment**

* Implemented code delivery with S3 and git hub integration by AWS codedelopy
* Implemented continuous delivery pipe line with git hub integration and S3 by AWS codedeploy

**Used** **AWS Codedeploy Service for** **Zero Downtime Mixed Version Deployment**

* Implemented no loss of instance due to termination (Instances to be patched are put into a standby mode). There is no service interruption during code patching for new release and there are mixed versions of instance during code patching for new release

**Used** **AWS Codedeploy Service for Zero Downtime Green-Blue (AB) Deployment**.

* Implemented no loss of instances due to termination (Instances to be patched are put into a standby mode). There is no service interruption during code patching for new release and there are mixed versions of instance during code patching for new release

**Used AWS Cloudformation service to Generate AWS Infrastructure**

* Created a yaml template for generating a permanent stack with below exported AWS resources to be shared by other stacks: A VPC, a IGW in the VPC, a S3 bucket, two public subnets in the VPC, a public routing table (with a route to IGW) in the VPC, two private route tables (with routes to net gateways) in the VPC, two elastic IPs and two net gateways in the public subnets.

**ComED, Oakbrook Terrace Oct 2014 – Oct 2016**

Provided the consulting service in data warehouse and data integration projects, and expert professional service support in Informatica, Oracle, big data/cloud technologies.

**Major Achievements:**

* + Designed and implemented the data warehouse (type1 and type2 dimensional model) ETL project for automatic meter reading requirement under the environment of Informatica and ORACLE database. Efforts involved generating Informatica daily invoked workflows for refresh type1 and type2 dimensional tables. Efforts also involved generating daily invoked Informatica workflow for load/reload meter reading facts table.
  + Implemented various performance tuning projects. Efforts involved SQL tuning by analyzing oracle explain plan, partitioning informatica transformations(aggregator, joiner, expression) for parallel data processing(parallel extraction, parallel insertion and parallel updates) and using lookup cache sharing methodologies.
  + Implemented a continuously workflow for a real time requirement.
  + Implemented an Informatica recursive framework for the recursively business logic requirement.

**Salliemae, Indianapolis, IN Jun 2014 - Aug 2014**

* Interacted with business community and gathered requirements based on business requirements
* Incorporated identified factors into Informatica mappings to generate feeds for downstream team.
* Send the generated feeds by using ftp scripts.

Generated daily LSMTJ File for the previous business day’s FDR nightly process.

wkf\_Create\_LSMTJ\_Sale\_Rec(daily)

Generated daily portfolio collection file for portfolio management team

wfk\_Ext\_Collections\_opsys

Generated monthly servicing data file for loan accounting service

Source MTJ\_OUT\_REC table and LOAN\_REC table.

Lookup: Mater\_DATA, MASTER\_DATA\_A

Target: MTHLYMTJ loan file.

Generated monthly loan sale feed for reporting service team

Developed mappings to extract data from Oracle, Mainframe files, Flat files and generated flat files.

**Ab Initio Lead Consultant to Capital One, Chicago IL                                                                        Jan 2013 to Feb 2014**

Convert mainframe data sets to Capital one Teradata Database data.

Worked as onshore development lead, designed and implemented 4 analytical conversion projects.

Worked as onshore development lead, designed and implemented 2 Kohls Autherisation projects.

**Ab Initio Consultant to citigroup, Columbus OH                                                                                Nov 2010 to Dec 2011**

Retiring Informatica based ETL systems and converting them to Ab Initio based systems.

Design and implemented hamper exchange rate processing graph.

Design and implemented hamper interest rate processing graph.

Design and implemented outbound extraction frame work graph.

**Ab Initio Consultant                                                                                                                                    Feb 2010 to Nov 2010**

**Working for Tata at Homedepot, Atlanta GA**

Data profiling and design for offshore ETL team

* XML data file generation in the continuous graph, DB2 and maestro ENV.
* Financial data set generation for retail business in DB2 and maestro ENV.
* EDI data set generation for retail business in DB2 and maestro ENV.
* Migration of an existing ab initio application from UNIX environment to LINUX environment.
* Design and Implemented CAR conversion project under the environment of ab Initio 2.15, LINUX, DB2 and     maestro. The implementation involves parallel download from DB2 database and parallel upload to DB2 database.
* Designed and implemented PC Miler application under the environment of ab Initio 2.15, LINUX, DB2 and    maestro. The work involved ab initio transformations and an automated telnet script.

**Ab Initio Consultant**

**JPMorgan Chase, Chicago, IL                                                                                Apr 2008 to Jan 2010**

**Lead Ab Initio Developer**

* Design and implemented the treasury data mart application in ab initio which are loading about 200 treasury files from 36 different sources daily. Treasure data mart calculates daily transfer pricing on its wholesale and retail CDs.
* Designed and implemented the pre processing graphs which cleansing the incoming source landing files.
* Designed and implemented the main engine which loads the data to 3 financial fact tables (loan, wholesale, swaps).
* Designed and implemented the recovery, reposting process and replication process.
* Designed and implemented load status tracking graph.

Work involved create business requirement document, create mapping document and create design document. The

Graph used the following ab initio components: checksum, generate record, reformat, join, input table, output table, join with DB and update able. The job also involves control m design and implementation.

* Design and implement the credit card application.  The this application generated the customer monthly credit card
* Generated usage figures and created customer’s profile based on the monthly usage figures. The profile categorizes the customer   into Revolver, Transactor, Borrower and Dormant.
* Design and implemented the monthly account info graph.
* Design and implemented the customer profile graph.

Work involved create business requirement document, create mapping document and create design document. The graph implementation involves sort, join, rollup and scan component under the ENV of ab initio, UNIX and ORACLE.

Control M scheduling tool was used in these application.

**Allstate, Northbrook, IL                                                                                                                       May 2006 to Mar 2008**

**Ab Initio Consultant**

**Responsibilities:**

* Worked on performance tuning for extraction graph.  Reduced the number of components by 30% and the execution time of the new graph is less than 60% of the previous graph.
* Removed several filter by expression components and put all the filter logic into the very first reformat component.
* Remove the meta generation portion of the graph by using meta programming which dynamically generates DML during execution time.
* Relocated a filter by expression component from after the join component to the very beginning of the graph.
* Relocated a normalization component from the beginning of the graph to the middle of the graph.
* Replace a component group, which has partition and sort followed by a rollup. The new group of components has a sort followed by a rollup, a gather and another rollup. Our test shows that we got 12% improvement of the performance just by this modification.
* Worked on performance tuning for the graph that generates dimension tables and the fact table. Every dimension Table is generated by a unique sub-graph.
* Two components were removed for each sub-graph.
* Relocate the rollup component from the very end of the graph to the beginning of the graph.
* Removed unnecessary gather components between the sub-graphs.

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**EDUCATION**

MS in Computer Science, the University of Alabama, Tuscaloosa, AL.

ME in Computer Engineering, Northwest University, Xian, China.

BS in Computer Science, Northwest University, Xian, China.