

## SENIOR SOFTWARE ENGINEER

### Career Overview

Results-driven IT developer with 5 years of development and scripting experience using Ab Initio, Teradata, Hadoop, Google Cloud, Python, and KSH shell programming technologies.

### Qualifications

- Data mapping
- ETL/Data warehousing
- Cloud computing
- Database design
- Working with large data sets
- Unix Shell scripting
- Scheduling tools
- Strong analytical skills

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### Technical Skills

Skills	Proficiency	Total Years	Last Used
Ab Initio GDE & Co-Operating Systems version 2.14/3.1/3.3.	Good	5	Current
SQL/ Teradata/ Oracle/ IBM DB2 LUW	Good	4+	Current
ETL jobs' parameterization	Good	4+	Current
UNIX/KSH scripting, awk, sed, cut	Good	4+	Current
Source to target mapping documents	Good	4+	Current
Hadoop HDFS, Hive, Sqoop, PIG	Good	3	Current
Python / Java	Working knowledge	1+	Current
Google Cloud Computing (BigQuery)	Working knowledge	6+ months	Current
SSIS	Working knowledge	4+ months	3 months ago
Dimensional Modeling using ERWIN	Working Knowledge	3+ months	6 months ago

### Accomplishments

- Investigated and fixed a defect located in over 2000 lines of a SQL script written by Teradata consultants. The script was in production for about 3 years before it was corrected.
- Modified a Teradata SQL script (BTEQ) to reduce its CPU consumption from 45000 to about 4000 CPU/S.

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### Work Experience

Saic (Science Applications Int.) Wright-Patterson Afb , OH Senior Software Engineer 01/2017 to 03/2017

- Enabled and automated data pipelines for moving over 10 GB of data from Oracle and DB2 source tables to Hadoop and Google BigQuery using GitHub for source control and Jenkins.

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Caterpillar Fort Lupton , CO IT Developer II 07/2013 to 01/2017

- Involved in architectural and design discussions of new projects under Supply Chain Data Integration.
- Consulted with manager and developers to establish design best practices and code review guidelines.
- â€‹ Developed Unix Korn Shell wrappers to run various Ab Initio Scripts.
- Redesigned critical ETL codes to improve their performance, and reduce their CPU consumption in the production environment to ensure that they met targeted SLAs.
- â€‹ Designed the schedule and automation of 50+ ETL jobs through IBM Tivoli Workload Scheduler.
- Designed ETL processes that sqoop data from Oracle/DB2 to Hadoop HDFS, transform it using Hive and load the processed data into a Teradata table.
- Wrote a Python program that checks a Linux directory for incoming XML files, upload all new files to a Google Cloud Platform storage location before the data is parsed and loaded into a BigQuery table.

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Cit Group Augusta , GA IT Developer 06/2012 to 07/2013

- Developed ETL graphs using Ab Initio to extract and process data from DB2, Oracle, XML, and flat files.
- Used various Ab initio database and program components i.e. READ MULTIFILE, WRITE MULTIFILE, REFORMAT, NORMALIZE, DE-DUP, SORT, ROLLUP, SCAN, LOOKUP on GDE.

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Basic Commerce & Industries Inc King George , VA IT Intern 05/2011 to 08/2011

- Wrote complex SQL queries to aggregate data using Teradata BTEQ.
- Worked in UNIX/Linux environments to develop shell scripts for task automation.

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## Education and Training

Master of Science : Information Systems 2012 Kennesaw State University , City , State , USA

Bachelor of Science : Computer Studies 2007 The University of Sunderland , City , United Kingdom

## Professional Development

- Test Driven Development training (TDD), Greater Sun, 2016.
- Hadoop for Big Data training, Think Big Analytics, 2016.
- ITIL Foundation Certificate in IT Service Management, PinkElephant, 2013.
- Teradata Fundamentals, Teradata Corporation, 2013.
- ETL and Graph Development using Ab Initio training, Ab Initio company, 2012.