

## DATA ENGINEER

### Summary

Involving in various projects related to Data Modeling, Data Analysis, Design and Development for Data warehousing environments. Practical understanding of the Data modeling (Dimensional & Relational) concepts like Star-Schema Modeling, Snowflake Schema Modeling, Fact and Dimension tables. Comprehensive knowledge and experience in process improvement, normalization/de-normalization, data extraction, data cleansing, data manipulation. Exceptional troubleshooting skills with ETL Technologies.

### Highlights

Hadoop, Hive, Avro, Kafka, MapReduce, Looker Programming Languages: SQL, Java, Scala, PHP, Shell Script, HTML Database Tools: Aster Database, PostgreSQL, MySQL Operating Systems: Linux, Unix, Microsoft Windows

### Experience

Data Engineer 08/2012 to Current Avanade Greenville , NC

- Experience with full development cycle of a Data Warehouse, including requirements gathering, design, implementation, and maintenance.
- Data modeling based on Kimball methodology, developed and architected ETL processes for different projects (RMA, inventory, purchase order etc.) Re-engineer some of the current ETL processes to streamline the data acquisition and integration process using our homegrown ETL tools.
- Built event-driven data pipeline that comprises multiple steps to gather high volume and velocity data from both push based and pull based sources, which includes design and implement web service to collect data (JSON object over http request), convert data in JSON format into Avro then feed into Kafka, land data in Kafka on Hadoop and Aster.
- Designed and built Looker API using Scala, which makes other teams access the data in data warehouse more easily and gracefully.
- Establish and maintain SQL queries and routines.
- Write ad-hoc queries based upon the schema understanding for diverse needs of our business users.

Java Intern 02/2012 to 03/2012 Dominion Enterprises Fredericksburg , VA

- Implemented code for small features & bug-fixes in Java.

PHP Developer 06/2011 to 09/2011 Meetoncruise City , STATE

- Implemented the back-end logic using PHP.
- Utilized JQuery and AJAX to provide dynamic and interactive user interface.
- Designed and implemented data model in MySQL database to support the website.

### Education

Master of Science : Electrical and Computer Engineering 2012 Polytechnic Institute of New York University City , State , United States Electrical and Computer Engineering

Bachelor of Science : Automation Engineering 2010 Nanjing University of Aeronautics and Astronautics City , State , China Automation Engineering

### Skills

streamline, ad, AJAX, API, data acquisition, Data modeling, data warehouse, Database, engineer, ETL, features, HTML, http, PHP, inventory, Java, JQuery, JSON, Linux, logic, access, Microsoft Windows, MySQL, Operating Systems, PostgreSQL, processes, Programming, requirements gathering, Shell Script, SQL, Unix, user interface, website