Arun kumar Jegarkal

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Summary: Developer with 4 years of extensive experience in Java, Python, Tableau, Data Analytics and ETL technologies; worked for various clients and projects in every phase of Software Development Life Cycle, from business requirement gathering to project delivery. Excellent design and integration problem solving skills.

Education

Texas Tech University, Lubbock, TX	**Graduation: May 2018**
Master of Science in Computer Science	**GPA: 3.42/4.0**
Visvesvaraya Technological University, Belgaum, India	**Graduation: June 2014**
Bachelor of Engineering in Computer Science	**GPA: 3.6/4.0**
R N Shetty Polytechnic, Belgaum, India	**Graduation: June 2011**
Diploma in Computer Science	**GPA: 3.5/4.0**

Professional Experience

Graduate Assistant at Athletics Department, Texas Tech University, Lubbock, TX (2016 Dec – 2018 May)

In this position, I developed and maintained the Texas Tech Athletic Department website. Created the tableau dashboards and stories to get insights and trends of expenditures and athletes' performance in each game and their academics. We created different kinds of charts, reports and motion charts using tableau. Deployed these dashboards to the Tableau public and used tableau bridge to keep the data UpToDate at the server side. To perform all these operations strong knowledge of database was required for writing SQL queries, PL/SQL procedures and functions to get data from various data sources. Also performed logical and physical Data Modeling using normalizing Techniques, creating Tables, Views, Constraints, Index and Triggers using SQL and PL/SQL. Performed pivoting, clustering, created calculated and parameter fields to model the data according to the business needs. Tableau server was scheduled to send reports via email on different time.

Software Engineer S2-Data Warehouse Analyst at EVRY India Pvt Ltd, Bangalore, India (2014 Aug – 2016 Aug)

As a Data Warehouse Analyst, I was responsible for the Extraction, Transformation and Loading of data from multiple sources using Informatica ETL tools and SQL. To perform these duties, a deep understanding of the Data Warehousing concepts were required. Thus, I used Informatica Designer for designing and developing mappings from varied transformation logic using Expression, Source Qualifier, Filter, Router, Joiner, Lookup, Sorter, Aggregator and Update Strategy. I also designed ETL logic for Dimension Tables using SCD – Type1 and Type2. Last, I worked with heterogeneous data sources like DB2, Flat Files and Mainframe Files to accomplish the goals of the organization.

Projects

- **National Eligibility Database (NEDB Carrier Loads) –** This is an Insurance domain project for the client HMS. The goal is to use proprietary logics to avoid cost from the government payers and recovery from the commercial or third-party insurance vendors. For which we received files on timely from all the vendors and performed ETL operations to uniform the data collected, before applying match processing.
- **Geospatial Visualization of Twitter Data –** This is a National Science Foundation funded research, it is focused on building a model for researchers to analyze trends in Twitter using machine learning algorithms for detecting the topics discussed and obtaining people attitude towards the discussions. Moreover, to find co-occurring topics and its evolution over a period.
- **A High Performance, Scalable Event-Bus System for Distributed Data Synchronization –** Our primary goal is to provide the support for fully transactional communication between the clients and the event bus thereby making the communication more effective. Achieved in Java technology using Web sockets, multithreading and Avro.
- **Movie Scope –** Analyzed the movie database from IMDB database, to compare the box office collection towards the user review for a movie, for which machine learning algorithms used to calculate the sentiment of the review and used created tableau dashboard to visualize the trends and insights based on releasing years, genres and movie name.
- **Napster Network –** Created a peer to peer style file sharing system with a central indexing server using socket programming in Java.
- **Gnutella Network –** Created a pure distributed file sharing system which allows file sharing without a central server using socket programming along with multithreading in Java.

Technical Skills

Programming languages	:	Java, Python, C, SQL, PL/SQL, Shell scripting
Web Designing Skills	:	HTML5, HTML, CSS, JavaScript, PHP, XML, JSON
Database	:	Oracle 9i, SQL Server
Frameworks		Spring, Hibernate, Spring Boot (MVC)
BI Tools	:	Tableau, Google Analytics, Looker, QuickBase
Tools & Utilities	:	Informatica PowerCenter Client 9.5.1, Informatica Data Explorer (IDE), Informatica Cloud, SQL Developer and Toad, Power Exchange, Eclipse, Net Beans.

Honors, Awards and Achievements

- Geospatial Visualization of Twitter Data - Poster presentation at national workshop for NSF grant support.
- Awarded competitive scholarship: 75% fee waiver by Texas Tech University.
- WebMaster at Texas Tech India student Association.