

Arun kumar Jegarkal

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<https://arunjegarkal.github.io/arunjegarkal/>

Summary: Developer with 3+ years of extensive experience in Java, Python, Data warehouse 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

Master of Science in Computer Science

Graduation: May 2018

GPA: 3.42/4.0

Visvesvaraya Technological University, Belgaum, India

Bachelor of Engineering in Computer Science

Graduation: June 2014

GPA: 3.6/4.0

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. Used data analytics tool and Tableau to create a dashboard map of the expenditure trends of the department. As part of my duties, I created group policies, managed file shares and printers within the organizational unit. I also participated in the upkeep of the inventory by creating a tool to find missing equipment. Last, I participate in the deployment of software and patches through KACE and in the deployment of computer images through MDT via PXE boot.

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 an 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.
- **File Converter** – Application Developed in Java using itext API, which converts .pdf to .doc file and vice versa. and added features to merge two .pdf files, extracting image/text from a pdf.

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)
Tools & Utilities	:	Eclipse, Net Beans, Informatica PowerCenter Client 9.0.1 and 9.5.1, Informatica Data Explorer (IDE), SQL Developer and Toad, Informatica Cloud, Tableau 10.3, Power Exchange

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.