**Ujjwal K**

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**Professional Summary**

* Overall 5 and half years of experience in **Software Industry**.
* Very good exposure on **Data Warehousing concepts, Data Integration, Data Analysis and Reporting, Data Warehouse** Web Based applications,end to end Website development.
* Around 3 years of experience in designing, modelling, optimization, performance tuning and analysis, implementing data integration processes using ETL tools **Informatica Power Center**, **Pentaho data Integration** **(PDI), SSIS** and **Talend** Open Studio Data Integration (**TOS- DI**) for **Data Extraction, transformation and loading processes.**
* Designing end to end ETL solution to support reporting and analysis requirements.
* Around 6 months of experience working as Web Developer and 1-year experience as **Oracle DBA 11g**.
* Worked on the complete Software Development Life Cycle **(SDLC).**
* Hands on experience on overall **ETL** **(Extract, Transform & Load)** process.
* Experience with report creation on BI platforms mainly Pentaho Report Designer and Tableau.
* Used Agile SCRUM methodology in my career projects.
* Extremely motivated, diligent, conceptually strong team player and team leading skills with the ability to take new roles and adapt quickly to new technology.

**Technical Skills**

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| **Pentaho Suite** | | PDI (Kettle), PRD, Pentaho BI Server, Pentaho Schema Work Bench | | |
| **DB Tools** | | Oracle SQL Developer, SQL Plus, SQL Server Management Studio, Visual Studio code, Erwin, DB Visualizer, MySQL work bench, Data Grip | | |
| **Oracle Utilities** | | Exp/Imp, Datapump, Log Miner, TKPROF, AWR, ADDM | | |
| **AWS** | | EC2, Redshift, S3 bucket, RDS | | |
| **Databases** | | MySQL, SQL 2008R2, Oracle 9i, 10g, 11g, AWS Redshift | | |
| **Languages** | | C, core Java, Python, SQL, PL/SQL, Unix/Linux Shell Scripting, PHP, JavaScript, jQuery, Ajax, HTML | | |
| **Web Servers** | | Apache Web Server, Apache Tomcat 5.x/4.x | | |
| **Applications/Tools** | | MS Office, MS Visual Studio, Photoshop, Dreamweaver, GitHub, Beanstalk, LAMP, WAMP, Tortoise SVN, SSH, My eclipse | | |
| **ETL Tools** | | Pentaho EE 6.0.1, 7.1 and 8.0, Pentaho CE 4.4.0 stable, Talend 5.6, Informatica 8.6/8.1, SSIS | | |
| **Reporting Tools** | | Pentaho Report Designer, Tableau, MS Access, MS Excel | | |
| **Operating Systems** | | Windows, Mac OS X, Linux, UNIX | | |

**Education Background**

**Governor’s State University**, University Park, IL, May 2015 - May 2016

M.S. in Computer Science Degree

GPA: 3.90/4.00

**Thesis:**

* “ERP Solutions Inc.” – a Java based application with database integration.

**University of Greenwich**, London, United Kingdom, Sep 2010 - Mar 2012

M.Sc. in Data Warehousing and Data Mining Degree

Class Awarded: Pass

**Thesis:**

* “Enabling Real Time ETL in Data Warehouse” using MS-SQL server 2008 R2, partitions and T-SQL.

**Vignan’s Engineering College**, Vadlamudi, India, Aug 2006 - May 2010

B-TECH in Electronics and Communications Engineering Degree

Class Awarded: First Class

**Projects:**

* Mini-project: “Image Compression using Discrete Wavelet Transform (DWT)”
* Major-project: “Wireless Electronic Voting Machine”

**Work Experience**

**BNY Mellon Pittsburgh, PA**

**Pentaho Developer Mar 2018 – Present**

**Project Description:**

The Bank of New York Mellon is an American worldwide banking and financial services holding company with headquarters in New York City. I was based at their Pittsburgh location as Pentaho Developer.

I was responsible for developing and maintenance of their ETLs and Oracle databases using Pentaho DI and Oracle SQL scripts for Metadata Injection.

**Responsibilities:**

* Experience with Pentaho – Kafka integration.
* Developed POC for Pentaho – Kafka Integration in versions 7.1 and 8.0 to deliver the JSON messages using Kafka queue messaging system and made POC available in confluence page that is useful for other developers.
* Build end to end Pentaho – Kafka platform to stream messages from database table to the front-end dashboard in the form of JSON messages for different topics.
* Validated front end JSON messages using Kafka tool 2.0.1.
* As a SME supported different teams on Pentaho-Kafka topic, Pentaho related issues and troubleshooting.
* Experienced in writing Batch Scripts, DMAP, Base Queries and DML SQL scripts for PDI Metadata injection job.
* Collaborated with BA to understand the story requirements and completed the tasks in the Sprint.
* Used Repository based Pentaho DI (kettle) EE 7.1 and 8.0 for development of the jobs and transformations.
* Strong exposure to Oracle database in the project.
* Pushed the Batch Scripts, DMAP, Base Queries and DML SQL scripts to Git in SIT and UAT regions.
* Validated code of other developers before moving to SIT region.
* Used Agile Scrum (Sprints) methodology in this project.

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| **Homesite Insurance Seattle, WA**  **DW & Pentaho ETL Developer Apr 2017 – Mar 2018**  **Project Description:**  Homesite is a unique and innovative national property and casualty insurance company. Partnering with many of the major players in the online insurance business, Homesite is carving out a position as a commercial platform solutions provider. As the Data Warehouse and Pentaho ETL developer, I was responsible for developing and maintenance of Homesite's commercial data warehouse and business intelligence solutions, to support reporting and analytics requested by Homesite's management, statutory entities, and other internal and external customers. I was an integral part of the IT Data Warehouse team who is responsible for developing and enhancing the commercial data warehouse, fulfilling statutory reporting needs, and building internal and external analytic capabilities for the company.  **Responsibilities:**   * Be an integral part of the development team to evaluate requirements, and to scope programming efforts and time estimates. * Collaborate with program manager to clarify BI requirements and develop technical design specifications for various company projects. * Good exposure to Amazon Web Services EC2, S3 bucket, RDS and Redshift. * Used Repository based Pentaho DI (kettle) EE 6.0.1 for development of the jobs and transformations. * Designed and developed a Dynamic Feed job that serves as a single job for all Partner Feed requirements. It can be run according to daily/weekly schedules and also for adhoc requirements. * Develop and maintain ETL processes using Pentaho software stack (Data Integration, Schema Workbench, Business Analytics) and database performance skills. * Generated the feed files for some of the major insurance clients. * Developed base tables, work tables, stored procedures in the data warehouse. * Implementing end to end ETL solution in data warehouse for reporting and analysis purpose. * Wrote Python scripts, Bash Shell scripts, procedures and integrated them in to the ETL jobs. * Defined Variables and Parameters in jobs and transformations for daily run and adhoc scenarios. * Designed and developed Common transformations and jobs that can be dynamically used by many other jobs. * Used kettle variables for the DB connections, SFTP connections, file paths etc. * Used project specific project.properties file that is utilized to modify the changes (Email, Folder paths, DB connections, Script locations etc.) for the Job without restarting the Pentaho DI server. * Used JNDI connections, native JDBC connections where ever necessary. * Created different DI user profiles and restricted their access to the repository. * Strong exposure to Oracle, MySQL and AWS Redshift databases in the project. * Pushed the ETL Jobs and Transformations, Python scripts, Bash Shell scripts, SQL scripts, Stored procedures into the Beanstalk (Git Version Control repository) from Dev environment. * Moved Jobs from Git into the Test Environment and developed high quality test strategies that helps ETL tester to test all possible scenarios and deploy quality ETL components into Production. * Reviewed code of other developers at Beanstalk repository. * Optimization of ETL processes, identifying bottlenecks that were causing slow data loading and eliminated them by using best performance tuning methodologies. * Boosted up speed of ETL by using some simple JDBC settings. * Analyzed and solved production issues on Pentaho BI reports. * Worked very closely with Dev Lead to understand the requirement of ETL and reporting feed files to be built. * Used Agile Scrum methodology in the project. * Working with Pentaho Production Support team.   **Axcess Financial Cincinnati, OH**  **Pentaho ETL Developer Sep 2016 – Mar 2017**  **Project Description:**  Axcess Financial is a financial solutions provider for real people and a career destination for those who want to make a difference. It provides customers with financial solutions they need when they need them. It started over 20 years ago in Covington, KY, at a retail location with a customer base in desperate need of financial support. Since then, it has grown to nearly 1,000 retail stores and have serviced over 50 million loans. I was part of the Production support of the Data warehouse team. Major job duties were to support Pentaho, Talend jobs and coordinate with DBA’s and Linux admins to solve the production issues. Develop end to end data integration solution and reports for analysis.    **Responsibilities:**   * Used File based Pentaho DI (kettle) CE 4.4.0 stable, Talend 5.6 for development and production support purposes. * Designed, fine-tuned transformations and deployed faster running **Pentaho** jobs and transformation and saved half of the time of the Production jobs. * Implementing Reverse Engineering to find out the total ETL jobs in Pentaho and **Talend** and documenting them. * Great hands on experience in troubleshooting the production ETL jobs. * Created Xaction files, brought them to Pentaho User console and scheduled them at Pentaho Admin Console. * Experience in troubleshooting the embedded Talend jobs in Pentaho jobs. * Scheduled various jobs using normal scheduler and Cron scheduler at Pentaho Admin Console. * Analyzed the source data coming from various heterogeneous data sources to be consumed in the ETL procedures to load data into data warehouse. * Created various JNDI connections with various databases in PDI. * Worked closely with the DBA team to regularly monitor system for bottlenecks, metadata locks and implement appropriate solutions. * Worked closely with the Sys Admin team to replace the modified files at the server, take backups of the files, Pentaho app server restarts, cleaning of the temp files and unnecessary files to save disk space. * Exposure to Oracle, MySQL, Vertica and PostgreSQL databases in the project. * Provided CSV and Excel files to managers for particular records they wanted to look at in different meetings. * Conducted various meetings with the business users and delivered what is needed to the business. * Supported the Operations using ServiceNOW to solve the various Pentaho tickets, approached Business End Users to meet their needs and solved the errors in the Pentaho jobs. * Worked on the complete Software Development Life Cycle **(SDLC)**. * Used Agile SCRUM methodology in the project.   **Governor’s State University University Park, IL**  **Thesis: ERP Solutions Inc. Jan 2015 – May 2015**  **Position: Team Lead**  **Project Description:**  The objective is to design and develop an application which will allow a production supervisor to input data at the end of the shift and review shift performance. The results should be captured in a database, so that other business functions can review the data to make business decisions. The data that needs to be captured in this application is as followed…labor cost, cases produced, number of hours scheduled to work and actual hours worked, and downtime.  **Responsibilities:**   * Identified the requirements of the project using SMART criteria. * Gathered feature requirements like UI Login, UI Welcome ERP Employee, UI Shift Report and UI ERP Database. * Created Onlinebilling schema using MySQL Workbench, integrated it with front end java application. * Built a good GUI (Java based) for easy use of ERP application. * Created ER model, EER model for the database tables. * Granted user access to the application by enrolling the users in table login. * Stored the shift schedule into table schedule. * Stored reporting summary like scheduling variance, cost variance, downtime percentage, etc. into rep\_summary table. * Secured A grade in the project for the entire team and was applauded by professor.   **Governor’s State University University Park, IL**  **Course: Advanced Database Concepts Aug 2015 – Dec 2015**  **Position: Team Lead**  **Project Description:**  Build an effective Internet Service Company (Blitzz) that can offer wide range of services (VOIP, Internet and TV) to its customers and can compete with the existing companies. Attract residential customers by giving them discounts for short to long term contracts. Provide reliable service to the client. Design, develop and implement a consistent database to perform day to day customer transactions and manage them. A database that can handle 100,000 customers and many more in the future.  **Responsibilities:**   * Build an effective, consistent relational database from scratch. Used MySQL workbench for this project. * Created Blitzz Company database architecture, created ER model for Customer database, Services databases and Employee database. * Finally created EER model for the entire project that shows relation between all three databases. * Gathered feature requirements, general database requirements and distributed tasks to each member of the team and achieved good results in time. * Secured A grade in the project for the entire team and was applauded by professor.   **Vel Consultancy Services Hyderabad, India**  **Software Engineer Apr 2014 - Apr 2015**  **Project Description:**  Vel consultancy services is a staffing solutions company that outsource employees to its major clients. My major job duties were to handle the databases of one of its clients. It was an internal project.  **Responsibilities:**   * Installing and upgrading the oracle server and application tools. * Monitoring the Instance on daily basis. * Physical, Logical and RMAN backups for both test and production databases. * Backing up and restoring the database. * Tablespace maintenance like adding and resizing data files. * Managing primary objects (tables, views, indexes). * Table level reorg. Rebuilding Indexes. * Creating users, roles, privileges and controlling and monitoring users access to database. * Cloned databases from one environment to another using RMAN backup. * Maintained archived data on tape and involved in backup schedules. * Reporting the changes to the senior DBA. * Working with Oracle support.   **Alpha LSG Ltd. Heathrow, London**  **Client: American Airlines Apr 2013 – Feb 2014**  **Flight Assembler**  **Project Description:**  Alpha LSG, the business has combined revenues of more than £300 million and employs around 3,600 people providing catering, retail and logistics services from facilities located at 17 airports throughout the UK. I was based at location London Heathrow. I worked for client American Airlines as Flight Assembler.  **Responsibilities:**   * Manage seasonal workers and assign them duties according to Aircraft customer specifications. * Check meals and equipment prior to delivery to the Aircraft. * To ensure that all products meet customer specifications * To monitor temperature levels. * To observer all hygiene with health and safety requirements. * To complete the supporting documentation for airline billing. * Thoroughly check everything at final assembly point.   **iMakr.vc Aldgate East, London**  **PHP Developer Feb 2013 - Mar 2013**  **Project Description:**  iMakr operates two of the largest physical locations for 3D printing in both London and New York, In May 2016, iMakr launched Urban Manufacturing, a new service that allows for on-demand 3D printing, 3D scanning and design services.  In 2013 when they first started their company I worked for them to build the company website.  **Responsibilities:**   * Building Company’s Website. * Validating the forms using JavaScript validation techniques and server-side validation. * Resolving cross browser compatibility issues. * Developing compatible User Interface functionality using jQuery and other libraries.   **Out of Zion Elephant & Castle, London**  **Web Design Intern (Part-Time) Jul 2012 – Oct 2012**  **Project Description:**  Out of Zion is a sister company of ‘The BKH’. The company’s business is to develop websites, flyers for their clients. As a web design intern, I was involved in designing and developing flyers and websites for them.  **Responsibilities:**   * Building strong backend PHP websites. * Building User registration forms, contact forms. * Testing and validating the complete website against W3C standards. * Back end development and maintenance of websites using PHP and MySQL. * Developing compatible User Interface functionality using jQuery & other libraries. * Excellent attention to detail both front and back end. * Building CMS websites as per client requirements. * File upload/download management systems.   **Sainsbury’s Supermarkets Ltd. Clapham Common, London**  **Customer Service Assistant (Part-Time) May 2011 – Oct 2012**  **Project Description:**  J Sainsbury plc, trading as Sainsbury's, is the second largest chain of supermarkets in the United Kingdom, with a 16.9% share of the supermarket sector in the United Kingdom. I worked for them as CSA part time during my studies.  **Responsibilities:**   * Worked as Checkout cashier, stocking the products. * Answering customer enquiries or directing them on to the appropriate department. * Giving information and helping to solve customer problems. * Processing complaints and, if correct then issuing refunds. * Making sure that the customer’s experience is a positive one. |

**University of Greenwich Greenwich, London**

**Thesis: Enabling Real Time ETL in Data Warehouse Dec 2011 – Mar 2012**

**Project Description:**

Themain aim of the project is to enable real time “Extract, Transform and Load” of the data into data warehouse. Today’s business world is demanding more real time ETL. So, it is necessary to design a data warehouse that could exactly answer the end users queries against the real time ETL. So, a data warehouse should be capable of providing a real time data of good quality to the end users.

**Responsibilities:**

* Download and Installed a larger set of data (Adventure Works Sample databases) into MS-SQL Server 2008 R2 for this project.
* Filtered and cleansed the data in staging area.
* Implemented the methods like Near Real Time ETL, Direct Trickle Feed, Trickle and Flip, External Real Time Data Cache.
* Chose a table SalesOrderDetail and partitioned it on a basis of daily, monthly, quarterly, half-yearly and yearly for the analysis purpose.
* Created partition function, partition scheme, filegroups and partition table.
* Partitioned data, used partition switching and loaded the data effectively using interval loading of data partitions with T-SQL.
* Documented the entire project and covered the topics like business needs, data quality, what is a data warehouse, real time ETL system, table partitions, partition function, partition scheme, benefits of partitions and limitations of partitioned table, various partitioning methods like Range, List, Hash, Composite, Interval partitioning.