

# Renjie Liu

theLRJ@gmail.com / (914) 309-6088 / New York / Authorized to work in the U.S. (Green Card holder)  
Business Intelligence • Data Engineering • Process Automation

## Summary

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- BI/DW professional with 15+ years of experience delivering data projects for global organizations
- Led highly skilled development teams to implement automated end-to-end solutions
- Collaborated with cross-functional teams to design data structures, roles, and pipelines
- Extensive hands-on expertise in free-hand SQL for complex data analysis and transformation

## Experience and Skills Overview

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- 15+ years of working experience in **Data Warehousing** and **Business Intelligence** space
- Working on design, development, testing and implementation of the ETL and reporting components.
- Proficiency in the full life cycle of Business solution development with outstanding capabilities in analysis, problem definition and requirements gathering
- Experience on **Data Governance** and **stakeholder management**, ensuring data quality and alignment with business objectives
- Experience on creating **training documents and sessions** to business users
- Solid working knowledge on data warehousing concepts, **OLAP**, **de-normalization**, star and snow-flake schema
- Expertise in **freehand SQL** script skill, including windows function and recursive CTE
- Full life cycle design and development of reports for global organizations, using **Power BI**, **SAP Business Objects**, **Tableau**, **SAP Crystal Reports**
- Extensive Database experience in **MS SQL Server**, **Oracle**, SAP HANA, Teradata, MySQL
- **Informatica** (Power Designer, Workflow Manager, Workflow Monitor), with workflow design, coding, testing and migration
- Reporting system **performance tuning** skill, on both front and database end
- Coding with reporting solutions **SDK** for customized / automated applications

## Tools:

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- **Databases:** MS SQL Server, SSIS, SSAS, Oracle, MySQL, SAP HANA, Teradata
- **Data and Reporting tools:** Power BI, SAP BusinessObjects, Tableau, Informatica
- **Programming languages:** Python, C#, Unix/Linux Shell scripting
- **Other Skills:** Data Profiling, ETL, Data Governance, stakeholder management, Mentoring

## Professional Experience

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### Senior Business Intelligence Consultant

*United Nations Headquarters (Consultant), September 2015 - Present*

- Designed and delivered **over 30 data integration and reporting solutions** for **HR analytics** and strategic workforce planning
- Performed data acquisition and profiling across **SAP ECC HCM, SAP HANA, SQL Server** and offline data sources to ensure data integrity for system integration
- Automated recurring tasks and **ETL processes using SQL scripts and Python**, reducing manual effort by 95%
- Created **end-to-end ETL pipelines** and reporting modules for HR scorecards, **Exceptions tracking & notifications**, and organizational dashboards
- Collaborated with cross-functional teams to **establish KPI definition** and validate data flows from HR systems
- Led UAT by designing and executing test cases across functional and non-functional areas
- Mentored teammates and served as go-to person for data requests, ensuring quality and improvement

#### Tools:

SQL Server, SAP HANA, Power BI, Python, ETL (SQL and Python), SSAS, SSIS

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### Technical Analyst

*PepsiCo (Infosys), March 2013 - September 2015*

- Working directly with Business users, analyzing and documenting requirements
- Coordinating amongst PepsiCo Business users; In-house support team and 3rd party vendors to ensure data and reports are delivered on time and SLA compliance.
- Validating data transferred to PepsiCo by writing Unix Shell script and **SQL script with Regular Expression**.
- Monitoring recycling job status using **Informatica Workflow Monitor**.
- **Freehand SQL script** to analyze the exceptions in the system and give proposals for potential enhancement opportunities.
- Offshore work-management and project status report to stakeholders.

#### Tools:

SAP BusinessObjects, Informatica, Oracle, Unix Shell scripting

## **Business Intelligence Engineer**

*Infosys Limited, August 2009 - March 2013*

- Engaged in full project life cycle, High/Low-Level Design and deliver the BusinessObjects Reports single handedly.
- In charge of Universe design, using **Context** and **Alias** to resolve loop, chasm trap or fan trap.
- Use Aggregate Navigation and **@Aggregate\_Aware** to select different fact tables per user's choice in prompt.
- WebI reports development, charts and using **In-Block Input Controls** for interactive reports.
- Using **OpenDocument** feature to link between different reports.
- User configuration and access management in **CMC**.
- Working with IT team and 3rd party vendor for **Single-sign on** configuration (Windows Authentication and Kerberos).
- System-wide performance tuning using Oracle **Materialized View, Table Partitioning, Bitmap Index**
- Change the Infoview UI by modifying underlying CSS and XML to comply with corporate identity style.
- Using Import Wizard to migrate WebI reports, user configurations, access level, etc., from Coding Environment to Production
- Custom SQL in Activity universe for **Auditing Reports**.
- Using **Dynamic Recipient and Personalization for Report Bursting**, to deliver the report to users based on users' data access setup, on an **Event-triggering** basis.
- Participate in the unit test, system integration test and user acceptance test.
- Creating bi-lingual training documents and conducting end users training.

### **Tools:**

SAP BusinessObjects, Informatica, Oracle

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## **Education**

Geography Information System (B.S. Degree)

Shanghai Normal University, September 2005 - June 2009