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Experienced Data Engineer | Business Intelligence Specialist

PROJECT SUMMARIES

Vice President - Database and Data Warehouse Engineer
Caxton Associates | Mayfair - London | 2019 - Present

Project Name:
Greenfield Data Warehouse Development

Project Summary:
This project involved the development of a new Data Warehouse to meet the reporting requirements of the firm following the implementation of a new trade booking system. The Data Warehouse played a crucial role in generating critical reports such as Daily PnL Summary by PM, Firm's Real-time PnL Summary, FAS 157, OCC Limits, and MiFid, providing accurate and timely information for decision-making and compliance purposes.

Project Details:
- During my project, I focused on ensuring high-quality data for analysis and reporting. To achieve this, I utilized Python 3.7 and PySpark (POC) for data wrangling and cleaning tasks. For data manipulation, transformation, and exploratory analysis, I leveraged Python libraries such as Pandas and NumPy.
- To efficiently handle and manage large volumes of data, I integrated AWS S3 as a storage solution. I implemented robust data quality checks and validation processes using Python to ensure the accuracy and integrity of the data resulting in 90% reduction of data errors.
- To create an effective ETL pipeline with interconnected workflows, I utilized the Stonebranch automation tool. These workflows would execute when specific conditions were satisfied or based on triggers.
- For delivering end-user reports, I utilized Tableau. The reports used embedded data sources that were refreshed based on a schedule, and some reports utilized live connections.
- Throughout the project, I worked with various tools and technologies, including Orchestrade, PostgreSQL, MySQL, Python 3.7, Oracle 12c, Toad 11, AWS (RDS, S3), GitLab (pipeline), Stonebranch, and Tableau 2021.4.

Project Name:
Databases Upgrade

Project Summary:
The project involved upgrading the AWS managed PostgreSQL (Aurora) from version 10.7 to 11.7 and AWS managed MySQL (Aurora) from version 5.6 to 8.0.23. This upgrade resulted in enhanced features, improved performance, and increased security. The project also focused on maintaining a robust and up-to-date database infrastructure, optimizing data management, and improving application performance within the AWS environment.

Project Details:
- In this project, I conducted a thorough analysis and planning to ensure a smooth upgrade process. To mitigate any potential data loss during the upgrade, I backed up the existing databases.
- I carefully evaluated and resolved compatibility issues and conflicts that arose with the newer versions of the databases. Specifically, I executed the upgrade process for AWS managed PostgreSQL from version 10.7 to 11.7 and for AWS managed MySQL from version 5.6 to 8.0.23.
- To ensure the functionality and integrity of the upgraded databases, I conducted comprehensive testing. Additionally, I monitored and optimized the performance of the databases post-upgrade, making necessary configuration adjustments.
- To enhance the security of the databases and implement best practices, I applied security enhancements. I diligently documented the entire upgrade process, including any challenges faced and the corresponding solutions implemented.
- Throughout the duration of the project, I utilized various tools such as AWS, pgAdmin4, MySQL Workbench 8.0, and Python 3.7.

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PROJECT SUMMARIES CONTINUED

Project Name:
Tableau Upgrade

Project Summary:
Upgraded Tableau from version 2019.1 to 2021.4, ensuring the latest features and functionalities are available. Improved data visualization capabilities and enhanced reporting.

Project Details:
- In this project, I made use of the features and capabilities offered by Tableau 2021.4 to enhance data analysis and reporting workflows. The new Data Model feature allowed for the creation of relationships between tables, enabling more complex data blending and simplifying data preparation processes.
- By leveraging the External Services Integration feature, I integrated external data processing services like Python directly into Tableau workflows. This integration facilitated advanced analytics and calculations beyond the built-in capabilities of Tableau.
- Throughout the project, I utilized various tools and technologies, including MySQL, Python 3.7, Oracle 12c, Tableau Content Migration Tool, Tableau Server 2019.1, Tableau Server 2021.4, Toad 11, and SQL Server Management Studio 17.

Business Objects and Oracle Developer
Société Générale | Liverpool Street - London | 2015 - 2018

Project Name:
Client Reporting Migration

Project Summary:
Migrated existing multi-asset (Bonds, Equities, and Cash) client reports from the old portal to the new portal, ensuring a seamless transition.

Project Details:
- As part of this project, I successfully migrated existing client reports, which encompassed multi-asset data including Bonds, Equities, and Cash. The migration involved transferring these reports from the old portal to the new portal, ensuring a seamless transition of client reporting.
- In addition to the report migration, I also leveraged the SAP Business Objects tool for efficient and effective management of the entire process. This involved analyzing the existing reports, understanding their data sources, and mapping them to the new portal. Throughout the migration, I ensured the integrity and accuracy of the data in the reports, validating the data against the original sources.
- Furthermore, I conducted extensive testing and quality assurance to verify the functionality and compatibility of the migrated reports. This included validating the formatting, layout, and data accuracy to ensure they met the requirements and expectations of the clients.
- Overall, the project required meticulous attention to detail and coordination to ensure a successful migration of client reports using the SAP Business Objects tool.
- To accomplish this, I utilized various tools and technologies such as SQL Server 2008, Oracle 11g, SAP Business Objects XI 4.1, SSIS 2012, SSRS 2012, Crystal Reports 2016, and Toad 10.5.

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PROJECT SUMMARIES CONTINUED

Project Name:
Fixed Income Trading Insights

Project Summary:
Implemented a data insights project for fixed income traders, allowing them to compare historical rates and trading volumes for a selection of bonds over a range of periods. Provided flexibility to compare trends with terms, high and low trading levels.

Project Details:
- As part of this project, I successfully processed files provided by third-party providers to store data into an Oracle database. This was achieved by leveraging Python to develop efficient data processing scripts. The automated data processing helped streamline the integration of external data sources, ensuring accurate and reliable data storage.
- To further enhance the efficiency of data processing, I utilized Automic UC4. By creating workflows within Automic UC4, I automated the data processing tasks, reducing manual effort and improving overall workflow management.
- One of the key deliverables of the project was the creation of interactive dashboards in Tableau. These dashboards allowed fixed income traders to compare historical rates and trading volumes for a selection of bonds. The dashboards provided traders with the flexibility to analyze trends based on different terms, high and low trading levels, enabling them to make informed decisions. This functionality enhanced their ability to identify potential market opportunities and optimize their trading strategies.
- By successfully implementing this project, I significantly contributed to the data-driven decision-making process for fixed income traders. The automated data processing, combined with the interactive dashboards, provided traders with valuable insights into historical rates and trading volumes. This empowered them to make informed decisions, optimize their trading activities, and ultimately enhance their overall performance in the fixed income market.
- During the project, I utilized a range of tools and technologies, including Automic UC4, Oracle 12c, Tableau Desktop 10.2, Tableau Reader, Python 3.6, and Toad 10.5. These tools played a crucial role in ensuring seamless data processing, accurate reporting, and automation of critical workflows.

Manager - IT Development Analyst
Bank of London & The Middle East | Bank - London | 2013 - 2015

Project Name:
Consolidated Reporting and Greenfield Data Warehouse Development

Project Summary:
The implementation of a new leasing system and a joint venture created a need for consolidated reporting and the development of a Data Warehouse. The objective was to ensure business continuity by providing reports right from the first day of go-live.

Project Details:
- The Data Warehouse served as a central repository, collecting, and organizing data from various sources. Its purpose was to ensure that reports were available from day one of go-live, providing stakeholders with timely and accurate information.
- During the entirety of the project, I collaborated with cross-functional teams to understand reporting requirements and establish data integration mechanisms. I designed and implemented efficient data extraction, transformation, and loading (ETL) processes to populate the Data Warehouse using SSIS. Rigorous testing and validation were conducted to ensure data quality and accuracy.

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PROJECT SUMMARIES CONTINUED

Project Details Continued:

- By utilizing the Business Objects reporting tool and leveraging the semantic layer business objects universe designer, I ensured that stakeholders had access to consolidated reports that were generated from the integrated data sources. This streamlined the reporting process, allowing for comprehensive insights and facilitating informed decision-making.
- Additionally, SQL Server Analysis Services (SSAS) models were employed to further enhance data analysis capabilities and enable multidimensional reporting.
- Throughout the project, I utilized a range of tools and technologies, including SQL Server 2012, Microsoft BI Tools (SSIS, SSRS & SSAS), SAP Business Objects XI 4.0, Tableau 8.2 (POC), Sybase 6, iMAL, and SOLAR.

Project Name:
QRM Reporting

Project Summary:
Implemented a project enabling the delivery of business-critical reports such as PV01 and Liquidity GAP. Data Warehouse sourced data into the QRM application, where it was stratified using QRM internal ETL processes, and report books were exported in Excel/PDF.

Project Details:

- By leveraging the QRM risk application, I facilitated the analysis of risk metrics and measurements, allowing for comprehensive reporting on PV01 and Liquidity Gap. These reports provided valuable information regarding the sensitivity of the portfolio to changes in interest rates and the liquidity position of the organization.
- To enable seamless reporting, I utilized the internal QRM SSAS models. These models served as the foundation for data analysis and aggregation, enabling multidimensional reporting and advanced risk calculations. By leveraging the power of SSAS, stakeholders could efficiently analyze risk metrics across various dimensions and scenarios.
- Over the course of the project, I collaborated with cross-functional teams to understand reporting requirements and implement the necessary data connections between the QRM risk application and the internal SSAS models. I designed and implemented data extraction, transformation, and loading (ETL) processes to ensure accurate and up-to-date data was available for reporting purposes.
- To accomplish this, I utilized various tools and technologies such as Quantitative Risk Management (QRM), SQL Server 2012, SQL Server Data Tools (SSIS, SSAS), Sybase 6, iMAL, and SOLAR.

Senior Business Intelligence Technical Analyst
Ashurst LLP | Shoreditch - London | 2011 – 2013

Project Name:
Integrated Reporting Solution

Project Summary:
Implemented a reporting project to combine Ashurst and Blake Dawson reporting in Asia Pacific. Enabled decision-making support for partners by differentiating Parallel Matters & Ashurst Matters to provide accurate figures.

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PROJECT SUMMARIES CONTINUED

Project Details:
- By combining the reporting capabilities of Ashurst and Blake Dawson, I facilitated a unified and comprehensive reporting system. This integration ensured that accurate figures and data were presented, allowing partners to make informed decisions based on reliable information.
- I successfully created a unified data model using Business Objects Universe Designer. This data model was designed to support combined reporting, incorporating calculated business measures and hierarchies to meet specific reporting requirements. The primary aim was to simplify the reporting process and provide self-service reporting capabilities while hiding the underlying complexities. This empowered users to access and analyze data effortlessly, enabling them to generate reports independently and make informed decisions based on accurate and up-to-date information.
- Throughout the project, I utilized various tools and technologies to achieve the desired outcomes. This included Business Objects XI R2 (Designer, InfoView, Central Management Console) and Crystal Reports XI R2 for report design and generation. Additionally, Business Objects Data Integrator 11.7.3.10, SQL Server 2008, SQL Server Business Intelligence Development Studio 2008, and SQL Server 2005 were leveraged for data integration, management, and analysis.

Project Name:
Blackberry Application Usage Reporting

Project Summary:
Implemented a reporting project on Blackberry Ashurst-applications usage, enabling cost-saving decisions through analysis of usage statistics. Allocated applications to individuals based on their needs.

Project Details:
- By implementing the reporting project, I gathered and analyzed usage statistics of Blackberry Ashurst-applications. This analysis provided valuable insights into the usage patterns, allowing for informed decision-making regarding cost-saving measures. Through the identification of underutilized applications or redundant licenses, I contributed to optimizing the application portfolio and reducing unnecessary expenses.
- During the project, I leveraged SQL Server 2008 and SQL Server Business Intelligence Development Studio 2008. These tools enabled efficient data collection, analysis, and reporting, providing a solid foundation for data-driven decision-making.

Business Intelligence Consultant
Glue Reply Consultant (Client: M&S) | Paddington - London | 2010 - 2011

Project Name:
Supplier Chain Reporting and Stock Management Enhancement

Project Summary:
Enabled reporting of the Enterprise Data Warehouse (EDW) for stock management across the end-to-end business process, initially for Ambient Foods but ultimately extending across all Foods categories. Supported decision making at the Head Office.

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PROJECT SUMMARIES CONTINUED

Project Details:
- By enabling reporting capabilities within the EDW, I facilitated comprehensive stock management analysis. This included tracking and monitoring various aspects such as shelf life, wastage, and supplier chain performance. These reports provided valuable insights into inventory levels, expiration dates, and wastage patterns, enabling proactive decision-making and optimizing stock management processes.
- The project initially concentrated on the Ambient Foods category, ensuring accurate reporting and effective inventory management within that specific area. As the project progressed, the reporting capabilities were extended to cover all Foods categories, providing a holistic view of stock management across the organization.
- Throughout the project, I utilized various tools and technologies to achieve the desired outcomes. This included Business Objects XI R2 (Designer, Desktop Intelligence, Infoview, Central Management Console) and Xcelsius 2008 for report design and generation. Additionally, Data Integrator 11.5, DB2, and UNIX were leveraged for data integration, management, and processing.

Business Objects Developer
Hays Specialist Recruitment | New Malden - London | 2008 – 2010

Project Name:
Pricing Discounts Approval Reporting

Project Summary:
Enabled reporting on the number of discounts offered to clients outside normal agreed terms of business. Provided insights into discount approvals before communicating them to clients.

Project Details:
- As part of this project, I successfully implemented a reporting system using Business Objects to provide high-level management oversight of discounts offered to clients on recruitment fees. The primary objective was to ensure that the discounts being provided were in line with the agreed terms of business. This allowed for a comprehensive view of the discount usage across the organization, providing insights into the frequency and extent of discounts granted.
- Throughout the project, I utilized Business Objects XI R2 (Designer, Desktop Intelligence, Infoview, Central Management Console) to design, develop, and deploy the reporting system. The data underlying the reports was sourced from SQL Server 2005, and the project was implemented on the Windows XP Professional operating system.

SQL Server DBA/Business Objects Developer
Aegis Media UK & I | Holborn - London | 2007 – 2008

Project Name:
Pricing Discounts Approval Reporting

Project Summary:
Developed an automated reporting system for search data sourced from feeds provided by MSN, Yahoo, Google, and Miva. Created a copy of the database called Feed_Report_DB, imported the feeds, and generated reports to provide clients with valuable market intelligence (MI) for their advertising campaigns.

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PROJECT SUMMARIES CONTINUED

Project Details:

- In this project, I spearheaded the development of an automated reporting system for search data, focusing on marketing advertisements. The objective was to gain insights into customer engagement by tracking the number of customers who visited the page, hovered over the advertisement, and clicked on the advertisement to access the page.

- To gather the necessary data, I utilized the power of SSIS (SQL Server Integration Services) to source feeds from major search engines such as MSN, Yahoo, Google, and Miva. These feeds contained crucial information about customer interactions with the advertisements. Leveraging the capabilities of SSIS, I designed and implemented efficient data extraction and transformation processes to ensure seamless integration of the feeds into the project.

- Using the collected feeds, I implemented processes to import and integrate the data into the database Feed_Report_DB. This allowed for seamless data integration and synchronization, ensuring the accuracy and timeliness of the reports. Leveraging the capabilities of Business Objects XI R2 (Designer, Desktop Intelligence, Infoview, Central Management Console), I designed and generated comprehensive reports that provided valuable market intelligence (MI) insights.

- During the project, I utilized Business Objects XI R2 (Designer, Desktop Intelligence, Infoview, Central Management Console), SQL Server 2005, SSIS and Windows XP Professional.