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| Basheer Khuddus  Data Engineer | basheer.khuddus@gmail.com • (+44) 7432-713563  [LinkedIn](https://www.linkedin.com/in/basheer-khuddus-3aa36066/) • Coventry, UK |

Highly analytical and solutions-oriented professional with solid expertise in designing, developing, and maintaining robust data infrastructure to drive business intelligence and analytics initiatives. Instrumental in leveraging cutting-edge technologies and methodologies to streamline data processing, ensure data accuracy, and enhance data accessibility. Strong background in database management, ETL processes, data warehousing, and data modeling. Expert in delivering high-quality solutions in complex data engineering projects, driving efficiency and accuracy in data processing. Proven track record in building and maintaining data pipelines with Prefect. Known for diligently maintaining data integrity and security of sensitive information.

Technical Proficiencies

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| ETL Tools | Prefect, ADF (Azure Data Factory), SSIS (SQL Server Integration Services), Talend |
| Cloud Technologies | Azure Cloud Services (Managed Instance, Data Factory, Synapse Analytics, Kubernetes, Container Registry, Storage, Cosmos DB, Key Vault), AWS S3, DevOps CI/CD pipeline |
| Programming Languages/ Framework | SQL, Python, NET, C#, ASP.NET, MVC (Model-View-Controller), Java, XML, XSLT, YML, VB (Visual Basic), COM (Component Object Model), JavaScript, PowerShell Scripting |
| Database / ORM | Microsoft SQL Server, Snowflake, Entity Framework |
| BI Tools | Power BI, SSRS |

Career Experience

North of England Commissioning Support Unit (NECS), UK Dec 2021 – Sep 2023

Data Engineer (Contract)

Collaborate with cross-functional teams to design and implement end-to-end ETL processes for data extraction, transformation, and loading. Develop and implement automated Docker image generation and push activity to azure container registry to streamline deployment process. Orchestrate Prefect flows in the cloud by managing parameters and timings for optimal performance. Utilize Great Expectation (GX) data quality framework in Prefect flows to validate, document, and profile data. Prototype Phase 1 development for data transfer to the controlled cloud environment using Azure Synapse. Migrate SSIS jobs from on-premises environment to Azure by ensuring proper documentation and efficiency.

* Implemented Azure DevOps pipelines, reducing deployment time by 83% and increasing overall efficiency.
* Improved data validation and quality assurance processes by integrating Great Expectation framework into Prefect flows, resulting in 90% reduction in data errors.
* Streamlined data transfer and processing from secured central SQL managed instance to Customer managed instance in Azure, reducing processing time by 86% and enhancing data accuracy.

Scania, France Apr 2021 – Sep 2021

ETL Developer (Contract - Remote work from UK)

Extracted data from seven different source systems using Talend pipelines, converting them into CSV and fixed length format files, and stored them in AWS S3 cloud Data Lake. Utilized ELT Talend components to efficiently ingest SFR (Scania France) data from AWS S3 into Snowflake, managing Type 2 Slowly Changing Dimensions (SCD). Conducted data quality rule checks to identify and address gaps in applicable dimensions for intended use. Created audit trails and control systems, monitoring the loading of data extract files into Snowflake and sending email alerts for specific conditions. Established Snowflake storage integration, Snowflake Stages, and various File Formats for loading data from AWS S3 environments. Provided daily updates to Sprint board in Azure DevOps, conducted code reviews, and maintained related documentation.

* Developed and applied JavaScript UDFs in Snowflake to validate MDM data attributes such as SIRET, SIREN, and VAT.
* Collaborated with data stewards in iterative reviews to identify and resolve root causes of upstream data errors.
* Implemented alert system within Talend jobs to address issues and exceptions.

Solidsoft Reply Ltd, UK Dec 2020 – Apr 2021

SQL Developer (Contract)

Streamlined ETL process by designing and implementing SSIS packages to aggregate data from multiple sources. Developed and executed integration testing scripts using C#, identifying and resolving bottlenecks to optimize performance. Created utilities using C# to enable operations team to run complex queries more efficiently. Documented data mapping and transformation logic and provided recommendations for improvements in existing SSIS packages. Utilized SQL queries to generate ad-hoc reports and conduct data analysis in CosmosDB for the NBS system.

* Attained 60% reduction in CosmosDB account creation time through significant user account management optimization.
* Mentored and trained junior team members on ETL processes and best practices.
* Enhanced the efficiency of the ETL process, resulting in a 45% reduction in data processing time.

One Housing, UK Apr 2017 – Nov 2020

Lead Analyst (Contract)

Supported efficient SQL server maintenance and administration, including routine checks and reports creation. Conceptualized and generated pipelines in Azure Data Factory, enhancing data extraction from on-prem servers to cloud Data Warehouse. Improved and sustains SSIS packages, enabling seamless in-environment data integration from the Housing Management System. Orchestrated development and maintenance of dynamic BI reports using SSRS, contributing to informed decision making. Drove migration support for CRM system to Dynamic 365, ensuring streamlined access and management.

* Advanced OneZone CRM system performance through the development of a .NET windows service that updates repair status and schedules, benefiting the overall user experience.
* Contributed to the successful analysis and data modelling of legacy MS Access application data, guaranteeing a smooth data migration.
* Simplified SQL Server stored procedure logic into ETL requirements, improving system efficiency.

Cisiv Ltd, UK Dec 2013 – Feb 2017

Senior .NET Developer

Collaborated with project managers to provide technical guidance and analysis for new study propositions. Documented technical specifications, work instructions, risk analysis, and release plans. Customized and developed a data import application for CRF data into the Baseline Plus system, ensuring accurate and efficient data imports. Maintained systems, performed bug fixing and release management using Final Builder, Apex Schema, Apex Data, Beyond Compare. Developed and managed application reports using Stimulsoft Reports.

* Optimized software development processes, resulting in improved code quality and reduced development time.
* Received recognition for optimizing data extraction service, enhancing overall data analysis efficiency.
* Implemented one-stop task management service, yielding substantial time savings and increased productivity.

Move with US Plc, UK May 2011 – Jul 2013

Application Developer

Analysed requirements and created View Models to efficiently map elements and validate data in the system. Designed and implemented document exchange services, integrating with a third-party cloud company, using technologies such as C#, WCF, SQL Server, and REST APIs. Developed and integrated a vendor module into the Market Appraisal valuation system using technologies like C#, ASP.NET, WCF, and EF4.0. Created a comprehensive email service, utilizing C#, Office 365 Exchange APIs, and SQL Server, to provide users with a one-stop solution for their email needs.

* Streamlined Conveyancing system by developing efficient controllers and views, leading to improved user experience and increased productivity.
* Implemented the FileWatcher windows service, reducing manual efforts and ensuring seamless file transfers between the system and Amazon S3 Bucket.
* Identified vulnerabilities in CMSx system and proposed robust solutions, enhancing system security and stability.

Verizon Data Services, Chennai, India Oct 2003 – Apr 2011

Analyst / Technical Lead / Technical Manager

Designed and developed UI Architecture, controls, server pages, and authentication components for FiOS Digital Voice application using ASP.NET, C#, and .NET 2.0. Led development of FDV integration with m.verizon.com mobile web app using HTML5, CSS3, and JQuery, interacting with backend .NET web services. Built iobi services using .NET Web services to communicate with iobi desktop client application. Implemented and provided support for FDV Mobile applications, including Native app, in .NET web services. Created components in IT Workbench project using Microsoft .NET, C#, and SQL Server.

* Translated customer requirements into software design for development of systems that met customer needs.
* Established 'FiOS TV Central' in 2006 and 'FiOS Digital Voice' National Wide launch in 2010.

Additional Experience

ETL Developer, Scania GB (Contract, part time), UK – Mar 2020 – May 2020

Senior Developer (Contract), Release Mobile, UK – Mar 2017 – Apr 2017

Developer, Fathom Business Solutions, UK – Jul 2013 – Dec 2013

System Analyst, Ebix Software, Noida, India – May 2002 – Oct 2003

Education & Professional Development

Bachelor of Engineering – University of Madras’, India

Microsoft® Certified Technology Specialist (MCTS) / Microsoft® Certified Professional ID: 6583737

Microsoft® Certified Azure Fundamentals – AZ-900 | Microsoft® Certified Data Fundamentals – DP-900

Microsoft® Certified Designing and Implementing Microsoft DevOps Solutions – AZ-400

Microsoft® Certified Data Engineering on Microsoft Azure - DP-203