

Fassahat Ullah Qureshi

**Senior Data Engineer | Data Architect |
Microsoft Fabric Data Engineer Associate
| Microsoft Fabric Analytics Engineer
Associate**

As a Senior Data Engineer and Data Architect at NSW DoE & Central Coast Council, I spearheaded the review and enhancement of the data engineering infrastructure. Leveraging a tool stack comprising Azure Data Lake Gen 2, Azure Data Factory, Azure Data Factory, Azure Databricks, Azure Databricks, and Power BI, I collaborated closely with cross-functional teams including the Section Manager IT, Solution Architect, and integration specialists. Implemented the data governance framework from scratch utilizing Azure Purview and Unity Catalog. Highly skilled and results-driven Power BI Specialist with a proven track record of leveraging data visualization and analytics to drive business insights and enhance decision-making processes. Proficient in developing interactive and visually compelling reports and dashboards, utilizing advanced data modeling and DAX expressions. Demonstrated expertise in data extraction, transformation, and loading (ETL) from various sources to Power BI. Adept at collaborating with cross-functional teams to identify data-driven solutions, optimize business performance, and deliver actionable recommendations. Possess a strong understanding of data architecture, data governance, and data security.

Contact

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Education

Masters by Research (Engineering and IT)
University of Sydney, Australia, 2017-2019
Scholarship – University of Sydney Fully Funded International Scholarship

Master of Science in Sustainable Environment and Energy
Middle East Technical University, Turkey, 2013-2016
Scholarship – Graduate Teaching and Research Assistant Fellowship -

Bachelor of Electrical Engineering
University of Engineering and Technology Lahore, Pakistan, 2008-2012

EXPERIENCE

Senior Data Engineer

04/24 – Current

Department of Education NSW

- Utilized PySpark, Azure Synapse, Azure Data Factory, and Edulake (custom ELT) to design and deliver complex integration and transformation pipelines across medallion zones (drop, landing, raw, data, inf, knowledge).
- Curated datasets for analytics and reporting, ensuring quality, lineage, and alignment with governance standards.
- Partnered with platform engineering and DevOps teams to integrate notebooks into custom GUI interfaces, streamline CI/CD through Visual Studio 2019 & Azure DevOps, and manage PRs with automated checks.
- Built and optimized stored procedures, tables, and views in EDW, providing trusted semantic layers for downstream reporting teams.
- Developed Power BI dashboards with DAX, RLS, and advanced data models, enabling secure, role-based insights.
- Delivered seamless support for SCOUT and production issues, resolving R1–R3 tickets and driving successful go-live.
- Operated in agile sprints with daily stand-ups, planning, and retrospectives—met KPIs and maintained on-time delivery.
- Liaised with Business Teams, Testers, Architects, and Solution Infrastructure teams, fostering transparent communication and smooth delivery.
- Mentored junior engineers, reviewed PRs, and uplifted coding and documentation standards.
- Advocated for modern engineering practices: CI/CD pipelines, IaC, environment management, monitoring/alerting.
- Actively contributed to the decommissioning of legacy data flows and transition toward modern Azure data warehouse and Fabric models.

Key Achievements:

- Led the development and integration of complex data workflows within a medallion architecture, enhancing data processing efficiency.
- Designed and delivered scalable data workflows across medallion layers (drop, landing, raw, curated, inf, knowledge), significantly improving data processing efficiency and governance.
- Played a pivotal role in R1, R2, and R3 releases, ensuring all critical issues were resolved ahead of time and each release went live smoothly.
- Built strong partnerships with business teams, testers, architects, and DevOps engineers, ensuring clear communication and alignment across technical and non-technical stakeholders.
- Consistently met and exceeded KPIs in an agile, sprint-driven environment by balancing hands-on engineering with proactive issue management and stakeholder engagement.
- Consistently met KPI targets within an agile environment, demonstrating strong project management and technical skills.

Technical Skills

- Power BI (Certified Microsoft Data Analyst Associate)
- Microsoft Fabric
- Azure Databricks (Python and SQL)
- Azure Databricks SQL Datawarehouse expert
- Azure Data Factory Pipelines
- Azure Synapse Analytics
- Azure Purview and Unity Catalog for Data Governance
- Azure DevOps CI/CD Pipelin
- QlikSense/Qlikview
- Microsoft Dynamics CRM Expert
- Snowflake
- SQL Database Administration (Backups, Views, Tables, Schedule Jobs, Query Optimization)
- MS Excel (Pivot Tables, VBA, Power Query, Formulas)
- Tableau
- Python
- SQL
- Advanced MS Excel (VBA, Macros, Power Query, Pivot tables)
- Azure Administrator
- Jira System Administrator, Workflow and automation
- Salesforce CRM Dashboard and Reporting Expert
- Trello
- Stakeholder & People Management
- Coaching and Managing Teams
- Data Warehouse Management
- Experienced in Agile methodologies in JIRA (Kanban and Sprint)
- Microsoft Dynamics
- Power Automate
- Business Central
- SSIS (SQL Server Integration Services)
- SSRS (SQL Server Reporting Services)
- SSAS (SQL Server Analysis Services)

Data Architect and Senior Data Engineer

08/23 – 04/24

Central Coast Council

- Developed and maintained scalable data pipelines using Azure Data Factory, Azure Databricks and other relevant technologies to extract, transform, and load ETL data from diverse sources.
- Lead and mentor a team comprising reporting analysts, integration specialists, and solution architects in the development and implementation of data engineering architecture.
- Working on all reporting aspects utilizing Power BI tool and is actively utilizing Power Query, DAX, Power BI Service, Power BI Administration and Power Platform for developing BI Reports.
- Transformed the data engineering solution architecture at Central Coast Council, optimizing for security and efficiency. Introduced Microsoft-standard architecture aligned with the medallion framework, a robust data design pattern for organizing data in a lakehouse environment.
- Implemented a comprehensive data governance solution, leveraging Unity Catalog and Azure Purview. Collaborated with data stewards to enhance metadata management, cataloging, glossary creation, and data lineage tracking.
- Developed and executed use cases and ETL procedures using Python and SQL in Azure Databricks Jupyter Notebooks, ensuring seamless data processing and analysis.
- Implemented data integrations and data cleansing processes to ensure data quality and consistency.
- Employed Azure Databricks SQL Serverless Environment to create a dynamic SQL Data Warehouse, integrated seamlessly with BI tools such as Power BI.
- Led the implementation of CI/CD pipelines, repositories, and branching strategies using Azure DevOps, contributing to a more agile and efficient development lifecycle.
- Established robust data security and access control measures using Azure Active Directory Security Groups and Unity Catalog, ensuring data integrity and compliance.
- Collaborated in an agile environment, actively participating in sprint planning sessions and daily standups using JIRA.
- Deliver presentations to internal executives, including unit managers, for approval of new data engineering architecture, effectively communicating technical concepts to non-technical stakeholders.
- Actively Working on implementing AI Strategy utilizing Power BI Tool and Machine Learning through Azure Databricks to enable predictive modelling and chatbot

Soft Skills

- Leadership and Mentoring
- Leading Teams
- Teaching and Presentation
- Over 7 years of teaching and training experience at various universities including University of Sydney, Swinburne, and Middle East Technical University
- Excellent Communication Skills
- Creative and Problem-Solving Mindset
- Can Do Attitude
- Ability to Work Under Pressure
- Self-Starter with Innovative Mindset
- Consistent Performer
- Great Stakeholder Engagement Skills
- Ability to Lead Projects from the front
- Great Listener

Data Science & AI Skills

- Linear Regression Models
- Clustering Techniques
- Decision Trees
- Hypothesis Testing
- Exploratory Data Analysis
- NLP and Text Mining
- Prompt Engineering and ChatGPT
- LLM



Senior BI Analyst & Data Engineer

08/22 – 08/23

Murray PHN

- Working within the Data and Systems team, design, develop and implement, best fit data schemes, models, storage, and analytic solutions that supports Murray PHN ICT Strategy
- Making Complete Data Pipelines utilizing modern ETL tools including Azure Synapse Analytics, SSIS, Power Query and Azure Data Factory
- Working with data stewards across all business units to successfully communicate, develop and implement data solutions that addresses company requirements, while alleviating the burden of data management.
- Utilizing the data governance working group, guide the company in a developing matured and respectful data culture. Embedding an understanding and appreciation of data quality, integrity, sustainability, privacy, ethics, value, and power for the data accessed by the company.
- Training and mentoring of junior staff including developers to develop quality BI reports
- Providing expertise and strategic recommendations in established and emerging data tools and technologies, such as cloud storage and services, data models and management, artificial intelligence and machine learning, and utilising data visualisation to effectively communicate content and insight.
- Working with the following tools: Azure (Databases, Data Factory, Synapse, Data Lake Storage, Purview, Machine Learning, Storage Explorer), Microsoft SQL Server Management Studio, GitHub, and Microsoft Power Platform.
- Utilizing advanced analytics programs and data organisation and doing database design, database management, analytics, data warehouses, and programming and query languages (such as SQL, Python, R, and web technologies such as HTML, JavaScript, and JSON).
- Advising on and leadership of data management, data policies, risk assessments and implementing frameworks and key drivers that deliver superior results.
- Using and implementing real-time analytics utilizing Power BI tool to develop dashboards and communicate value and business insights to key stakeholders.
- Leading people through changes in business processes, systems, and technology.
- Involved in the design and development of technical documentation, including UML diagrams, specifications, and user guides
- Implementing Row Level Security to share live Power BI reports and dashboards with both internal and external stakeholders

Trainings

ADHA – Trainings

- Digital Health Security Awareness
- Introduction to Security Awareness
- Think before you click
- Passwords
- Respond. Report. Protect Privacy

AEMO – Training

- National Electricity Market (NEM) Overview - eLearning Course

Super Data Science Institute

- TABLEAU 2018: Hands-On Tableau Training for Data Science!
- Data Science A-Z™: Real-Life Data Science Exercises

Academic Trainings

- Faculty University Tutor Training from University of Sydney
- E-Learning Advisor Training from Swinburne Online

Achievements

Scholarships and Fellowships

Graduate Teaching and Research

Assistant Fellowship Award (September 2013 – August 2016) –

Middle East Technical University, Turkey

University of Sydney International Scholarship Award (March 2017 – January 2019) – **The University of Sydney**

Recognition of the following professional skills from the peak Australian and other International Bodies:

- Developer Programmer – Australian Computer Society
- Professional Electrical Engineer – Engineers Australia
- IEEE Member

Senior Data Analyst and Data Engineer 11/21 – 11/22

Department of Education

- Built a complete End to End solution of developing a data warehouse from scratch by using Microsoft SSIS, SSAS and Power BI.
- Created Custom Dashboards requested by stakeholders in Microsoft Dynamics CRM system
- Did a lot of financial reporting by funders and activity code in terms of budget, income, expenses from business central.
- Used Advanced MS Excel skills to develop pivot tables, dashboards and cleaning data using power query and other complex formulas.
- Developed views in SQL by creating complex SQL Queries and then doing live integration with Power BI
- Designed, developed, and implemented innovative and appealing, static and interactive data visualisations featured on user-friendly reports and dashboards in Power BI
- Identif technology limitations such as Excel spreadsheets and deficiencies in existing systems and automating the associated processes, procedures and methods
- Leading the design and implementation of dashboards for executives at the Department of Education using combination of Power BI and Salesforce to provide analytics of School Leadership Institute data.
- Ensuring large and/or complex data is accessible, understandable and usable, and conveying key messages, through appropriate data visualisation techniques and methods
- Developing a relational database to capture data on participants, program outcomes and a range of other metrics across the suite of SLI leadership programs.
- Coordinating the process of dissemination of data and information both internally and externally.
- Developing the coordination, management, analysis and provision of data and reports relating to the SLI's programs for a range of audiences.
- Supporting the development and implementation of strategic approaches, practices and strategies to data gathering and evaluations.
- Provided advice and support to directorate staff in establishing and maintaining efficient records management and tracking systems in line with the codes of best practice.
- Provided high quality internal and external customer service, oral and written communication and liaison across the Department, with other Government departments, members of stakeholder groups and the public as necessary.

References

1. Dr Stuart Wong

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2. Ayub Shaik

Principal Data Engineer
NSW DoE
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Senior Data Analyst

02/20 – 11/21

South Western Sydney Primary Health Network, AUSTRALIA (SWSPHN)

- Using commercial business intelligence tools including Qlik Sense, Power BI, Tableau, MS Excel and other tools as required to meet SWSPHN reporting requirements.
- Writing and maintaining program code by using programming languages such as Python and R to meet system requirements, system designs and technical specifications in accordance with quality accredited standards.
- Wrote complex SQL queries to develop reports for the business intelligence applications required by important stakeholders.
- Developed data models in business intelligence applications such as Power BI by using complex DAX statements and used concepts such as star schema to develop those models.
- Testing, debugging, diagnosing, and correcting errors and faults by using SQL server skills and working with the backend data warehouse within established testing protocols, guidelines, and quality standards to ensure programs and applications perform to specification.

Data Analyst

07/19 – 01/20

Settlement Services International (SSI)

- Used advanced data cleaning, data analysis, data visualization and advanced programming skills to develop employment and enterprise services reports by utilizing business intelligence tools such as Microsoft Excel against the set KPI and contractual obligations.
- Worked as a team leader of the data team to manage technology projects across refugee employment support program (RESP).
- Maintained employment and enterprise services data management systems.
- Developed dynamic dashboards and live reports for KPI monitoring by using business intelligence tools such as Salesforce, MS Excel, and Power BI.
- Added new custom fields and objects in Salesforce CRM by using object-oriented programming techniques.
- Created custom reports at the backend of Salesforce CRM system to resolve reporting issues.
- Managed the responsibility of data security and integrity, participated in quality assurance projects, and performed ad-hoc queries of the relevant database as required.
- Day to day activities include closely working with different managers including refugee employment support program managers, business development managers and case managers to handle their data requests.