



Shemeer B.K

Data & Systems
Engineering Architect |
Azure & Power Platform
Specialist

Contact

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Websites, Portfolios, Profiles

- <https://www.linkedin.com/in/shemeerbk>
- <https://learn.microsoft.com/en-us/users/shemeerbk/>

Skills

- Data Architecture & Engineering
- MS Fabric, Data Factory, Data Lake & Synapse Analytics

A results-driven Data & Systems Engineering Architect with over 12 years of experience architecting and delivering high-impact digitalization solutions across the rail, aerospace, ICT, and life sciences sectors. Expert in designing and implementing scalable data platforms on Microsoft Azure (Fabric, Synapse, ADF) and driving enterprise-wide process automation with the Microsoft Power Platform. Proven leader in migrating legacy OT systems to secure cloud environments, achieving significant improvements in efficiency, system uptime, and cost savings.

Technical Trainings

- Microsoft Certified: Azure Fundamentals
- Training Completed: DP-203: Data Engineering on Microsoft Azure (2022)
- Training Completed: AZ-204: Developing Solutions for Microsoft Azure (2024)
- Microsoft Applied Skills: Create and manage canvas apps with Power Apps (2025)
- Training Completed: Azure Data Engineer Associate, Microsoft Fabric DP-700 (2025)

Work history

2022-11 -
Current

Manager / Data & Systems Engineering Architect

SMRT Corporation Ltd, Singapore

- Expanded leadership role to include **team management**, hiring, and performance while **architecting the end-to-end digitalization** strategy for engineering and operations.
- Architected a unified **Azure data platform (Fabric, Synapse, ADF)** to ingest and centralize complex OT & SharePoint data, enabling enterprise-wide analytics.
- Spearheaded process automation, delivering award-winning **Power Platform solutions** that cut manual work by >90% for 300+ users in risk management, inspections, and emergency response.
- Developed custom applications, including a **C#/WPF** tool that reduced data processing from 3 days to 2 hours and secure internal web apps (PHP/Tailwind) with LDAP/AD integration.
- Led the secure cloud migration of legacy OT systems, ensuring full compliance with stringent transport **cybersecurity** standards.
- Engineered **mission-critical Power BI dashboards** for defect monitoring and incident triage, featuring integrated rail map overlays for advanced operational intelligence

- Data Modeling &
- Warehousing (Snowflake, Azure SQL)
- PySpark, SQL Optimization, Python (Pandas)
- Automation & Business Intelligence
- Microsoft Power Platform (Power Apps, Flows, Power BI)
- Business Process Automation (BPA)
- End-to-End Solution Design
- Systems Integration & Security
- Secure OT System Cloud Migration
- Cybersecurity & IAM / RBAC
- IoT/4G/5G Gateway Integration
- API Orchestration & Network Architecture
- Team leadership
- Operations management
- Strategic planning

Recruiter Information

Visa Status: S Pass / EP
 Notice Period: 1 Month
 Nationality: Indian
 Total Experience: 14 Years
 Age :37 (End 1987)

2018-09 -
2021-05

Principal Equipment Engineer – Manufacturing Services

Rolls Royce Singapore Pte Ltd, Singapore

- Achieved over SGD 8M in cost avoidance by leading targeted control system upgrades on critical furnace equipment, preventing costly replacements.
- Reduced critical machine defects by 60% and improved overall equipment uptime by implementing a data-driven predictive maintenance program using Maximo and VBA automation.
- Engineered a novel wet sandblasting fixture that improved operational safety and generated SGD 56K in annual cost savings.

2017-08 -
2018-08

Application Consultant / Technical Project Manager

NCS Pte Ltd, Singapore

- Successfully delivered the JTC Smart Estate & Building Operations System (J-OPS) across 39 buildings, integrating disparate building management systems.
- Architected the Azure API Management layer to facilitate seamless integration between Facility Energy Management Systems (FEMS) and the central ICONICS platform.
- Designed and deployed a high-availability SQL cluster and ICONICS dashboards for real-time energy and fault monitoring.

2013-02 -
2017-07

Technical Specialist / Test Trainer

Sciex Pte Ltd, Singapore

- Earned multiple Continuous Improvement Awards for developing and deploying full-stack applications (C#, SQL, VBA) that solved critical business needs, including:
- A GHS-compliant chemical management and labeling system.
- A product traceability and quality control application for manufacturing.
- A comprehensive training, certification, and skills tracking platform.

Education & Certifications

2008-04

Diploma: Mechatronics Engineering

Temasek Polytechnic - Singapore