

MD SHAHIDUR RAHMAN

[LinkedIn](#) ◇ [GitHub](#) ◇ [Kaggle](#)

mdsrb.me@gmail.com ◇ +61 4 3189 3082 (whatsapp available) ◇ 5 Ascot Street Malvern VIC 3144 Australia

SUMMARY

Senior Data and AI Architect with 20+ years of experience in software development, data engineering, machine learning and analytics including six years in leadership. Specializes in designing scalable data and AI solutions across AWS, GCP and Azure, using tools like Azure Synapse, Snowflake, Databricks and Power BI. Expertise in AI/ML, Generative AI and Elasticsearch, optimizing data integration and performance. Proven track record in delivering innovative solutions aligned with business objectives.

EXPERIENCE

Senior Data and AI Architect

01/2020 - Present

Crystal Tech Limited

- Design and implement secure, scalable Azure solutions using Azure SQL, Synapse, Databricks, Data Factory, ADLS Gen2, Fabric and Power BI, enabling data-driven decision-making and analytics.
- Build and optimize ETL/ELT pipelines for seamless data ingestion, transformation and integration using Azure Data Factory, Databricks, ADLS Gen2 and Logic Apps, ensuring efficient orchestration across cloud and hybrid environments.
- Develop and manage high-performance data warehouse solutions with Azure Synapse Analytics, Snowflake and SQL architectures, enabling advanced analytics, reporting and decision support. Implement real-time data processing and IoT solutions with Stream Analytics and IoT Hub for predictive maintenance and operational efficiency.
- Utilize Azure Machine Learning, PySpark and Generative AI services to build AI/ML-driven solutions that solve complex business problems and drive innovation.
- Create clear architectural diagrams, roadmaps and documentation to ensure stakeholder alignment, project clarity and support for security and compliance.
- Collaborate with clients and cross-functional teams to translate business needs into scalable technical solutions while mentoring junior team members and fostering innovation.

Project Manager - Data Analytics

01/2015 - 12/2019

EY

- Demonstrated exceptional project management skills in successfully overseeing data analytics projects, ensuring adherence to timelines, budgets and requirements
- Developed comprehensive project initiation documentation, aligning project objectives precisely with stakeholder expectations
- Skillfully optimized resource allocation to maximize project value and achieve superior outcomes, resulting in enhanced efficiency and cost-effectiveness
- Effectively communicated project progress to stakeholders through regular and concise reports, promoting transparency and fostering collaboration
- Expertly managed contract variations and proactively updated project plans to accommodate changes, ensuring seamless alignment with evolving stakeholder needs

Senior Software Engineer

04/2007 - 12/2014

IQVIA

- Managed and successfully delivered multiple BI and analytics projects for pharma clients
- Created over 20 scalable BI and analytic web-based dashboard applications for various international clients

- Developed advanced data visualizations for KPIs, enabling better performance tracking
- Designed and implemented comprehensive dashboards utilizing ASP.NET (C#), JavaScript, VBA, SQL Server (SSIS, SSAS, SSRS), Oracle, MySQL and various ETL, data warehouse and business intelligence tools
- Implemented and improved Data Governance and Master Data Management practices
- Led delivery teams and ensured smooth handover between offshore and onshore technical resources

Software Engineer - Team Leader

10/2004 - 03/2007

Genesys Systems Ltd

- Led the development of ERP applications for the healthcare sector using .Net (C#), Oracle, JavaScript and other technologies and managed multiple projects concurrently

Software Engineer

10/2003 - 09/2004

Technovista Limited

- Developed the first integrated ERP solution for RMG, Banking and Finance, Insurance and Healthcare sectors

EDUCATION

MSc in Statistics, University of Dhaka, Bangladesh

2000

SKILLS

Programming Languages	Python, R, C#, SQL, JavaScript, VBA, PHP, Visual Basic
Databases	MongoDB, Oracle, Snowflake, SQL Server, MySQL, PostgreSQL, Azure Cosmos DB
Cloud Platforms	AWS, Azure (Synapse, Databricks, Data Factory, Data Lake, Fabric), GCP
Big Data Technologies	Apache Kafka, Amazon Kinesis, Apache Spark, PySpark, Amazon EMR, Apache Flink, Azure HDInsight, Databricks, Google Cloud Dataflow
ETL Tools	AWS Glue, Apache Airflow, Azure Data Factory, SSIS, Talend, dbt, Airbyte, Google Cloud Dataflow/Composer
Data Warehouse	Snowflake, Informatica, Amazon Redshift, BigQuery, Azure Synapse Analytics, Databricks, Snowflake, Informatica, Amazon Redshift, BigQuery, Azure Synapse Analytics (Serverless & Dedicated SQL), Databricks
Data Visualization	Power BI, Tableau, Looker Studio
DevOps	CI/CD, GitHub, GitLab, Docker, Kubernetes, Terraform
Data Architecture & Governance	Data Lake, Warehouse, Mart, Lake House & Integration (ADLS Gen2), Streaming & Batch Processing, Security & Management, Microsoft Purview, Quality & Compliance Standards

DOMAIN KNOWLEDGE

Pharma, Health Care, Retail Industry, Banking and Finance.

AREAS OF EXPERTISE

Data Management, Governance and Quality, Master Data Management, Product and Business Analysis, Software Development, ERP Solutions, Modeling and Architecture, Data Visualization, BI Reports and Dashboards, Communication, Interpersonal Skills, Collaborative Leadership, Negotiation Skills.

PROFESSIONAL COURSES

- Specialized Software Technology Courses in Indian Institute of Technology (IIT-Kharagpur), India
- Project Management- PMP, Prince-2, Agile (Scrum Methodology), CMMI.