

ARAFAT HOSSAN

Senior Software & Data Engineer

Melbourne, VIC, Australia | +61 480 667 119 | arafathossan9101@gmail.com
linkedin.com/in/arafat-hossan-software-data-dba

PROFESSIONAL SUMMARY

Senior Software & Data Engineer with 7+ years of enterprise experience designing scalable backend systems, ETL/ELT data pipelines, and cloud-integrated platforms across manufacturing, ERP, and healthcare domains. Proven track record delivering 20+ enterprise projects using C#, ASP.NET Core, SQL Server, Oracle, AWS, and Azure, including a platform serving 10,000+ users with a 30% performance improvement. Led and mentored cross-functional engineering teams of up to 6 engineers in Agile environments. Recently completed a Master of Science in Data Analytics at Melbourne Institute of Technology. Oracle Certified Associate (OCA). Seeking Software Engineer, Data Engineer, or Backend Developer roles in Melbourne and Australia.

CORE COMPETENCIES

Software Engineering	Data Engineering	Cloud & DevOps
C# / ASP.NET Core / .NET	ETL / ELT Pipeline Design	AWS (EC2, RDS, Lambda, S3)
REST API / Web API Development	SSIS / SSAS / Data Warehousing	Azure (App Service, SQL DB, Data Lake)
MVC / MVVM / Entity Framework	Star & Snowflake Schema	CI/CD Pipelines / Git / Docker
React.js / AngularJS / JavaScript	Dimensional Modelling	Oracle Cloud / Azure DevOps
Unit & Integration Testing	Python / PySpark / Pandas	Agile / Scrum / Jira
SQL Server / Oracle / PostgreSQL	Power BI / Tableau / SSRS	Linux / Windows Server / IIS
MySQL / MongoDB / SQLite	Data Governance & Quality	Performance Tuning / Query Optimisation

TECHNICAL SKILLS

Languages	C#, JavaScript, TypeScript, Python, SQL, T-SQL, PL/SQL, PowerShell, Shell Script
Frameworks	ASP.NET Core, ASP.NET MVC, .NET Framework, MVVM, Entity Framework, Web API, REST API, LINQ
Front-End	React.js, AngularJS, HTML5, CSS3, jQuery, Ajax, JSON
Databases	SQL Server (2008–2019), Oracle (10g–12c), PostgreSQL, MySQL, MongoDB, SQLite
Data Engineering	ETL/ELT Pipelines, SSIS, SSAS, Data Warehousing, Dimensional Modelling, Star Schema, Data Migration, Apache Spark, Kafka, Snowflake, Redshift
Cloud Platforms	AWS (EC2, RDS, Lambda, S3, Elastic Beanstalk, DynamoDB, Redshift), Azure (App Service, SQL Database, Data Lake, Data Factory), Oracle Cloud
BI & Reporting	Power BI, Tableau, SSRS, Crystal Reports, Oracle BI Publisher, OTBI
DevOps & Tools	Git, CI/CD, Docker, Azure DevOps, Jira, Redmine, Visual Studio, SSDT, DBeaver, SQL Developer, Toad, SSMS
DBA Skills	Backup & Recovery, Disaster Recovery, Index Optimisation, Query Tuning, Execution Plans, DMVs, AWR/ADDM, Security & User Management
Testing	Unit Testing, Integration Testing, Performance Testing, System Testing
Methodologies	Agile/Scrum, Sprint Planning, Code Review, Mentoring, Technical Documentation

PROFESSIONAL EXPERIENCE

Senior Software & Data Engineer

Jul 2021 – Feb 2024

BJIT Limited – Multinational IT Services · Dhaka, Bangladesh

- Architected and delivered scalable ASP.NET Core web applications and REST APIs serving 10,000+ users, improving overall system performance by 30% through SQL query optimization and indexing.
- Designed and implemented ETL/ELT data pipelines integrating SQL Server, Oracle, PostgreSQL, and MongoDB sources for enterprise analytics and reporting platforms.
- Built star/snowflake schema data warehouse models and Power BI / Tableau dashboards tracking operational, finance, and customer KPIs, used by 50+ stakeholders in weekly business reviews.

- Led and mentored a cross-functional team of 4–6 engineers across Agile sprints, managing end-to-end delivery from requirements gathering to production release.
- Maintained monolithic and 3-tier architectures deployed across AWS and Azure environments.
- Established CI/CD pipelines, enforced code review standards, and maintained unit and integration testing coverage across all production deployments.
- Implemented data governance standards covering data quality validation and automated cleansing pipelines, improving downstream reporting reliability.

Software & Database Engineer

Jan 2019 – Jun 2021

BJIT Limited · Dhaka, Bangladesh

- Developed web applications and REST APIs using C#, ASP.NET MVC, React.js, Entity Framework, and SQL Server for international clients across Japan and the United States.
- Built and maintained ETL/ELT data pipelines using SSIS and Python, integrating structured and unstructured data.
- Designed and implemented data warehouse tables, dimensional models, and transformation layers to support analytics and business reporting workloads.
- Integrated back-end services using Entity Framework, LINQ, and Lambda expressions; deployed to IIS, AWS, and Azure App Services.
- Supported data migration and system integration projects between on-premises and cloud systems.

Assistant Software Engineer

Feb 2017 – Jan 2019

Pacific Jeans Limited — Large-scale Apparel Manufacturer · Chittagong, Bangladesh

- Designed and developed ERP modules (Payroll, Accounts, Supply Chain, Inventory, Material Control, Challan) using C#, ASP.NET, AngularJS, SQL Server, Oracle, and Crystal Reports.
- Implemented Oracle E-Business Suite (EBS) and integrated Oracle Cloud Database with SQL Server, unifying financial and operational data flows across the enterprise.
- Built and automated management reports using Oracle BI Publisher, OTBI, and Crystal Reports, reducing manual reporting effort significantly.
- Designed and maintained SQL Server and Oracle databases supporting high-volume ERP operations and industrial automation systems.
- Conducted unit, integration, and system testing to ensure reliability, performance, and safety of all production ERP modules.

KEY PROJECTS

Enzan Pipe Flushing Platform | BJIT Limited | Industrial Manufacturing, Japan

- Implemented process planning, design, and real-time status-tracking modules for a Japanese industrial manufacturing client.
- Built RESTful APIs with ASP.NET Core and a React.js front end; integrated with SQL Server and deployed on Microsoft Azure.
- Stack: C# · ASP.NET Core · Web API · SQL Server · React.js · MVVM · Git · Azure

Valmet PDM — Product Data Management | Global Manufacturing Client

- Designed and optimized data warehouse schemas integrating SQL Server, Oracle, PostgreSQL, and MongoDB for large-scale manufacturing operations.
- Developed APIs, ETL transformation layers, and Power BI dashboards enabling self-service analytics for operations teams.
- Stack: ASP.NET Core · C# · SQL · PL/SQL · Oracle · PostgreSQL · MongoDB · Power BI · AWS · Azure · SSIS

Biomedical Management System | Healthcare Client

- Built end-to-end order processing platform, reducing manual operations by 40% through workflow automation and ETL pipeline design.
- Delivered Power BI dashboards tracking order fulfilment and material management KPIs for client stakeholders.
- Stack: C# · ASP.NET MVC · SQL Server · Python · AWS · Power BI · REST API · SQLite · MySQL

Pacific Web Portal & Payroll Management System | Pacific Jeans Limited

- Delivered enterprise HR and payroll platform covering attendance, leave management, salary generation, provident fund, and production reporting.
- Stack: C# · ASP.NET MVC · AngularJS · SQL Server · Oracle · Crystal Reports

EDUCATION

Master of Science — Data Analytics & Software Engineering

2024 – 2025

Melbourne Institute of Technology (MIT), Melbourne, Australia

Bachelor of Science — Information Technology

2009 – 2013

University of Information Technology & Sciences (UITS), Bangladesh

CERTIFICATIONS

- Oracle Database Administrator Certified Associate (OCA) — Oracle | Issued 2015
- Oracle Database 11g SQL Expert — Oracle | Issued Aug 2015