

## Hafizullah Mahmudi

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### **PROFESSIONAL SUMMARY**

Results-oriented Data and Business Intelligence (BI) Consultant and seasoned Developer with a robust foundation in designing, building, and optimizing data-driven solutions. With 16+ years of diverse experience, I have successfully led the development, implementation, and enhancement of advanced tools for data capturing, processing, integration, and visualization targeted at promoting quality in Health Care, Education, and Emergency services. Skilled at transforming complex datasets into actionable insights, I am committed to enabling evidence-based decision-making. My expertise spans a broad spectrum of technologies, including MS SQL Server, SSIS, SSRS, SSAS, PostgreSQL, Data Warehousing, PowerBI, Microsoft Fabric, Stimulsoft BI and Reporting, Microsoft Access, and .NET Framework,, MVC, C#, Python (panda, sklearn, matplotlib, seaborn), DAX, VBA, complemented by a strong set of soft skills that drive effective collaboration, project success, and innovation.

### **Key Skills**

Data Architecture, Modeling, and Profiling, EDA, Data Warehousing, Data Integration (custom and off-the-shelf), SSIS, SSAS, SSRS, Microsoft Fabric (Data Analytics), PowerBI, Performance Optimization, SQL Server, PostgreSQL, Microsoft Access, SQL, Python, C#, VBA, .Net Framework MVC, .Net Core, Entity Framework, Dapper, JavaScript, REST API, GitHub, Teamwork, Supervision.

### **PROFESSIONAL EXPERIENCE**

#### **BI Consultant, OHI (Remote)**

**07/2024 – 11/2024**

(Data Modelling and Architecting, Data Warehouse, ETL, API, PowerBI, C#, Entity Framework, Dapper, T-SQL, PostgreSQL, Power Query/Dataflows, DAX, Documentation, Planning and Collaboration)

- Designed and implemented a data warehouse by modeling data structures, optimizing storage management and ensuring data integrity across multiple sources.
- Developed customized ETL processes that optimized data extraction, transformation and loading from
- multiple sources into the PostgreSQL data warehouse and improved data availability.
- Identified key business metrics and developed dashboards for analytical and strategic reporting to improve decision-making processes for stakeholders.

#### **Data Warehouse Developer (BI and Data Visualization Specialist)**

**09/2022 – 11/2023**

#### **UNICEF Afghanistan (Remote)**

(Data Modelling and Architecting, Data Warehouse, ETL, API, Python, SSIS, PowerBI, T-SQL, Microsoft SQL Server, Power Query/Dataflows, Data Profiling, DAX, Upgrade and Module Enhancement, Documentation, Planning and Collaboration)

- Led the design, development, and implementation of a comprehensive data warehouse and one-stop-shop BI solution for nutrition services across the country. This involved integrating data from over 7 disparate sources into a unified and reliable platform, significantly enhancing data access, reporting, and analytics capabilities to support nationwide decision-making.
- Streamlined ETL workflows, reducing data load times by 60% and improving the accuracy of nightly data refreshes.
- Implemented automated data validation and error-checking procedures, decreasing data discrepancies by less than 15%.
- Designed, developed, optimized, and maintained ETL pipelines using SSIS and SQL Server and Python, optimizing data flow and integrity.
- Created over 30 interactive dashboards/reports in Power BI that provided real-time insights into key metrics, leading to significant improvement in decision-making speed across departments.

#### **Digital Health Solutions (Health Informatics) Advisor**

**09/2020 – 10/2021**

#### **Management Sciences for Health (MSH), Afghanistan – US Project**

(HIS, Planning, Leading, Training and Mentoring, Problem-Solving, Data Warehousing, ETL, SSIS, HMIS, Montiroing, PowerBI, Documentation)

- Developed personnel needs, wrote job descriptions, and assisted in recruitment for digital health and data systems projects to align talent with program goals.
- Provided expert guidance on implementing and optimizing HIS databases, mobile solutions, EMRs, and other digital tools.
- Support leadership in strategic planning by assisting in the preparation, collection, and analysis of data to inform the development of 5-year goals and targets, ensuring that future initiatives are data-driven and aligned with organizational objectives.
- Oversaw tool selection and staffing strategies to improve data quality, mining, and visualization, enabling timely decision-making.
- Assisted the monitoring and evaluation team in implementing data integration and visualization tools to track project activities, measure progress, and assess impact

#### **Power BI Developer**

**01/2020 – 08/2020**

#### **The Palladium Group, Afghanistan – US Project**

(Data Modelling, Data Visualization, Metrics and KPIS, PowerBI, SQL Server, Dashboard Design, DAX, Power Query, Excel, ETL, Orientation)

- Collaborated with stakeholders to create sophisticated dashboards, translating complex data into clear visual insights.
- Led the extraction and modeling of data from diverse sources, ensuring data integrity and accessibility.

- Designed and implemented an advanced interactive Power BI dashboard encompassing over 32 in-depth reports, greatly enhancing data visualization and driving more informed decision-making
- Oriented Ministry of Public Health technical teams, empowering them to leverage newly developed dashboards to facilitate the planning for investors in private sectors in health.

### **Nutrition Systems Developer (Full-Stack)**

**11/2018 - 12/2019**

#### **UNICEF, Afghanistan, Consultancy Project**

(Requirements Gathering and Analysis, Planning, Data Modelling, Upgrading and Migration, SQL Server, T-SQL, ASP.Net MVC Core, Entity Framework Core, JavaScript, jQuery, MS. Access, End user training)

- Led the full project lifecycle from initial requirements gathering to final implementation for a comprehensive nutrition management system.
- Designed and developed a robust SQL Server database, creating a normalized schema optimized for performance, data integrity, and scalability.
- Developed a full-featured web application using ASP.NET MVC Core and Entity Framework, providing a seamless user experience and ensuring efficient data management.
- Engineered a custom ETL process to migrate data from the legacy system into the new SQL Server database, ensuring data accuracy and integrity throughout the transition.
- Developed and implemented reporting features within the system, enabling users to generate customized reports and extract datasets according to their specific needs.

### **Healthcare Expenditure Information System Developer**

**01/2016 - 10/2018**

#### **Ministry of Public Health, Afghanistan – EU and World Bank Project**

(Data Modelling, SQL Server, T-SQL, ASP.Net C#, TypeScript, Serenity, Excel, Visualization, End user training, Presentation)

- Led full project lifecycle for a Health Expenditure MIS, supervising 3 developers to ensure timely delivery.
- Streamlined the design, creation, and maintenance of the Health Expenditure and Contract databases using ASP.NET MVC, C#, and SQL Server, reducing data collection and processing time by 50%.
- Engineered ETL process for seamless data migration from legacy systems to the new SQL Server database.
- Developed 20+ reports and presentations supporting efficiency analysis and healthcare cost evaluations.
- Developed interactive dashboards with tracer indicators to visualize performance, trends, and coverage across different periods and geographic areas, enhancing data-driven decision-making.

### **Pharmaceutical Information Systems Advisor**

**06/2012 - 12/2015**

#### **Management Sciences for Health (MSH), Afghanistan – US Project**

(Data Modelling, Requirement Gathering, Planning, Microsoft Access, SQL Server, VBA, Asp.Net, C#, Excel, Reporting, End user training)

- Led and supervised a team of 4 developers in the full cycle development of 4 regulatory and supply chain management systems, including databases for pharmacy outlet registration, pharmaceutical supply, medicine registration and import, and monitoring and quality control.
- Mapped and integrated the WHO ATC/DDD Database for Afghanistan to enhance regulatory compliance and data accuracy.
- Established and managed a Pharmaceutical Registration database and pharmaceutical logistics database, facilitating the registration and tracking of imported medicines and ensuring better control over the country's pharmaceutical supply.
- Developed a comprehensive inventory database for pharmacy outlets, improving the registration process and documentation.
- Expanded the licensed and essential medicines database to improve quality control and monitoring of medicines entering the country.

### **Senior Database Architect**

**04/2008 - 05/2012**

#### **Management Sciences for Health (MSH), Afghanistan – US Project**

(Data Modelling, Data Warehouse, ETL, Upgrade, Migration, Supervision, Microsoft Access, Asp.Net, C#, ADO.NET, Web Form, SQL Server, JavaScript, JQuery, HTML, CSS, Excel)

- Directed the end-to-end development of 12 national and sub-national database applications, including HMIS, Surveillance System, and TB Information System, from design to implementation and administration.
- Upgraded HMIS modeling and executed data migration with custom ETL processes, managing over 2,000 data flows and ensuring smooth synchronization across 100+ data copies.
- Designed and implemented a comprehensive Data Warehouse architecture, including Master Data Management files and data marts, ensuring centralized data management and access.
- Ensured efficient and uninterrupted information flow across all levels and users, implementing protocols that guaranteed data integrity and accessibility for all stakeholders.
- Led the identification of key metrics and report parameters. Designed and developed complex queries, data reports, and analytics, providing actionable insights to various stakeholders.

### **EDUCATION**

Master of Science in Data Science (MSDS), Liverpool John Moores University, UK + IIITB, India

Bachelor of Science in Computer Science (BCS), Kateb University, Afghanistan

Diploma in Business Administration (DBA), Kardan University, Afghanistan

## **CERTIFICATIONS/PROFESSIONAL DEVELOPMENT/AFFILIATIONS**

Microsoft Certified Professional Developer: Windows and Web Developer, 2010

Microsoft Certified: Implementing a Data Warehouse and Designing BI Solutions, SQL Server 2016

Microsoft Certified: Power BI Data Analyst Associate (2023)

Microsoft Certified: Fabric Analytics Engineer Associate (2024)