

ABDUL MOZID

Senior Software Engineer | System Architect | IT Consultant

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SUMMARY

Senior Software Engineer with over 10 years of experience in software development, system architecture, and data integration for national health and information systems. Skilled in designing and maintaining large-scale applications, dashboards, and DHIS2-integrated platforms used by UNICEF, DGHS, DGFP, and BNNC. Improved data accuracy by approximately 32%, processing speed by 45%, and decision-making capacity by 50% through automation and optimized workflows. Proficient in Laravel, CodeIgniter, Python, PostgreSQL, and Flutter with a strong focus on performance, security, and reliability.

CAREER HIGHLIGHTS

- **18,000+ health facilities connected:** Designed and developed the **Online Private Hospital Licensing System**, enabling hospitals and diagnostic centers to **apply for and renew licenses online** across Bangladesh.
- **Nationwide coverage:** Developed **eMIS public dashboards** tracking services for **6.4 crore citizens** across **45 districts** with 45 databases up to **80 GB each**.
- **National impact:** Led architecture for **DGHS Health Dashboard**, **BNNC Nutrition Dashboard**, and **GRS Complaint Portal**, used by **hundreds of facilities and government officials** daily.
- **System optimization:** Improved large-scale data query performance via query optimization and segmented data warehousing, enhancing reliability and speed.
- **Automation success:** Reduced manual data push tasks by 100% through automated workflows with administrative approval logic.
- **Mentorship & Collaboration:** Supervised up to **3 junior engineers**, collaborated with **5 technical consultants**, and **6 government officials** per project to ensure high-quality delivery.

CORE TECHNICAL SKILLS

- **Programming:** PHP, Python, JavaScript, Java, C, C++, R, Ruby, Visual Basic, ASP.NET
- **Frameworks:** Laravel, CodeIgniter, Django, Flask, Ruby on Rails
- **Frontend:** ReactJS, VueJS, Bootstrap, Tailwind, jQuery
- **Mobile Development:** Flutter
- **Databases:** MySQL, PostgreSQL, SQL Server, Oracle, SQLite
- **Data Systems:** DHIS2, Power BI, Tableau, Apache Superset, Crystal Report
- **Cloud & Servers:** Ubuntu Server, CentOS, RHEL, Windows Server
- **DevOps & Tools:** GitHub, Bitbucket, Grafana, Prometheus
- **APIs & Integration:** REST APIs, JSON, XML, Google Maps API, Leaflet
- **Other:** Data Warehousing, System Architecture, Data Visualization, Automation Workflows

PROFESSIONAL EXPERIENCE

National Consultant | Directorate General of Family Planning (DGFP), Dhaka, Bangladesh **August 2025 – Present**

- Lead development and maintenance of **eMIS Public Dashboard** and **Combined Monitoring Tool**, tracking data from **18,000 providers** and **3,000 facilities** serving over **60 million individuals**.
- Manage and maintain 50+ BCC (Behavior Change Communication) applications and databases across Red Hat, CentOS, and Ubuntu servers, ensuring system uptime, data integrity, and security compliance.
- Enhanced data accuracy and reporting efficiency through automated data validation and synchronization.
- Supported **HRIS operations**, server management, and database optimization to maintain **99.9% uptime**.
- Collaborated with **11-member team** (consultants + government officials) to align digital transformation goals.
- Implemented database performance tuning and query optimization, reducing dashboard load time by **35%**.
- Designed automated data backup and recovery strategies, ensuring **zero data loss incidents** and uninterrupted service.

Technical Expert (Solution Architect) | UNICEF **January 2024 – May 2025**

- Led the overall design and implementation of the **eMIS, Service Statistics**, and **FP-DHIS2** integration under UNICEF's digital health program.
- Strengthened system architecture and data pipelines that supported **nationwide health data exchange** across 45 districts.
- Architected interoperability between eMIS, DHIS2, and Service Statistics, automating workflows and reducing reporting delays by **45%**.
- Developed custom applications for Maternal, Newborn, and Adolescent Health programs, improving coverage and usability.
- Managed system testing and deployment across **45 district-level systems**, ensuring consistency and reliability.
- Provided technical training to **regional IT teams and government staff**, improving adoption and reducing support needs by **25%**.
- Received strong appreciation from UNICEF supervisors for sustained performance and system stability.

IT Consultant | Bangladesh National Nutrition Council (BNNC) **February 2021 – December 2023**

- Designed system architecture for the **National Nutrition Dashboard** and **Nutrition Workplan Monitoring System**, enabling real-time tracking of **22 ministries'** activities.
- Developed the Nutrition NGO Mapping System, integrating 180 NGOs and 300+ projects for interactive visualization.
- Contributed to the Online Private Hospital Licensing System and Health System Strengthening (HSS) Scoring System, facilitating facility performance evaluation and reporting.
- Automated monthly progress tracking, reducing manual reporting time by 50%.
- Collaborated with UNICEF and MoHFW teams to align nutrition indicators with SDG metrics, improving national data comparability.

IT Consultant | Directorate General of Health Services (DGHS)

January 2017 – January 2021

- Developed **National Health Dashboard**, centralizing key health indicators from all districts.
- Built an **Auto Local Health Bulletin System**, generating district-wise reports automatically and saving weeks of manual work.
- Implemented **Maternal and Child Health Tracker** and integrated **HRIS** and **GRS** via secure APIs.
- Developed data validation pipelines for DHIS2 integration, reducing data inconsistencies across district systems by **40%**.
- Supported the **Health System Strengthening (HSS) scoring framework**, enabling district performance assessment and recognition for top-performing health managers.

Software Engineer | Durbar Software

July 2016 – December 2016

- Developed web applications using **PHP, MySQL, HTML, and CSS**, ensuring efficient and responsive user interfaces.
- Gathered business requirements and translated them into practical technical solutions.
- Created RESTful APIs and integrated third-party services, improving scalability and reducing redundant code by **20%**.

Software Engineer | Info Networks Link

January 2015 – June 2016

- Supported software development lifecycle from concept to deployment.
- Conducted web development training sessions for industrial attachment students.

EDUCATION

M.Sc. in Applied Statistics and Data Science | Jahangirnagar University | Passing Year: 2023 | CGPA: 3.00/4.00

PGD in Project Management | Academy of Business Professional | Passing Year: 2025

B.Sc. in Computer Science & Engineering | Dhaka International University | Passing Year: 2018 | CGPA: 2.99/4.00

Diploma in Computer Technology | Chapainawabganj Polytechnic Institute | Passing Year: 2014 | CGPA: 3.59 / 4.00

TRAINING

- **Associate Data Engineer**, DataCamp (2025)
- **Red Hat Certified System Administrator (RHCSA)**, 7 Eyes Technology (2025)
- **Mobile App Development (Flutter)**, Lead Academy (2023)
- **UI/UX Design (Figma)**, Lead Academy (2023)
- **Health Management Information System**, UNICEF (2020)
- **Data Visualization Using Tableau**, Bloomberg Philanthropies (2018)
- **DHIS2 Core Configuration & Web App Development**, HISP Bangladesh (2018)

KEY PROJECTS

- **Online Private Hospital Licensing System** – Digital platform enabling **18,000+ facilities** to apply for and renew licenses (app.dghs.gov.bd/hsmgdghs).
- **Grievance Redress System** – Complaint submission and tracking system for **500+ health facilities** (app.dghs.gov.bd/complaintbox).
- **eMIS Public Dashboard** – Monitoring tool for Family Planning services covering **6.4 crore citizens**.
- **National Health Dashboard** – Centralized health data visualization for **DGHS** (dashboard.dghs.gov.bd).
- **Nutrition Dashboard & NGO Mapping System** – Data visualization for **BNNC**, integrating **22 ministries** and **180 NGOs**.
- **Nutrition Workplan Monitoring System** – Tracks ministry-level nutrition programs.
- **Health System Strengthening (HSS) Scoring System** – Evaluates facility performance and supports national health improvement initiatives.

RECOGNITION

- Received verbal appreciation from **supervisors and program leads** at **UNICEF, DGHS, and BNNC** for technical contributions and commitment to quality delivery.
- Contributed to the **Health System Strengthening (HSS)** initiative under DGHS, where high-performing district managers were recognized by the **Honorable Health Minister**; played a key technical role in developing systems that enabled the evaluation and scoring process.

SOFT SKILLS

- Problem Solving & Analytical Thinking
- Team Leadership & Collaboration
- Communication & Stakeholder Management
- Adaptability & Continuous Learning
- Time Management & Accountability

LANGUAGES

- **Bangla**: Fluent
- **English**: Fluent

REFERENCES

Mohammad Saiful Islam
Systems Analyst, Ministry of Religious Affairs

Masud Pervez
Health Officer, UNICEF Bangladesh