

# MD. MOSFIKUR RAHMAN

Modhumoti, Sector-18  
Uttara, Dhaka  
Bangladesh

Mobile: +880 1797-554948  
Portfolio: [mdmosfikurrahman.github.io](https://github.com/mdmosfikurrahman)  
Email: [mdmosfikurrahman.cse@gmail.com](mailto:mdmosfikurrahman.cse@gmail.com)

## EDUCATION

### Daffodil International University

Bachelor of Science in Computer Science and Engineering; CGPA: **3.83**

Dhaka, Bangladesh

Jan. 2018 – Dec. 2021

### Adam Mickiewicz University

Erasmus+ Exchange Program in Computer Science; Completed **6 ECTS**

Poznań, Poland

Mar. 2021 – Aug. 2021

## EXPERIENCE (5+ YEARS)

### Akij iBOS Ltd.

Software Engineer L-II

Dhaka, Bangladesh

Nov. 2024 – Present

- Collaborating on initial architecture and backend planning for the Akij Air system.
- Supporting design of scalable microservice components using Java and Spring Boot.
- Evaluating legacy .NET modules for migration to a unified Spring Boot-based platform.

### REVE Systems Ltd.

Software Engineer

Dhaka, Bangladesh

Jul. 2023 – Oct. 2024

- Built full-stack apps with Spring Boot, React, and Oracle DB in a team setup.
- Improved system throughput by 25% via optimized data access patterns.
- Integrated OAuth2 and Spring Security to strengthen authentication flow.

### BJIT Group

Software Engineer (Backend – GraphQL BFF)

Dhaka, Bangladesh

Apr. 2022 – Jun. 2023

- Developed GraphQL-based Backend for Frontend (BFF) services using Java and Spring Boot.
- Implemented resolvers, schema stitching, and batching for efficient nested query handling.
- Optimized Oracle DB interactions for improved performance and scalability.
- Contributed to internal tooling and reusable service patterns for consistent GraphQL schema design.

### Daffodil International University

Teaching Assistant, Dept. of CSE

Dhaka, Bangladesh

Jun. 2020 – Apr. 2022

- Assisted in teaching OOP and Data Structures to 150+ students.
- Led labs and lectures; designed assignments and practice materials.
- Provided mentorship and academic support to students.

## PROJECTS

### Akij Air Backend System

Akij iBOS Ltd.

- Contributed to architecture planning and tech stack decisions for the Akij Air backend.
- Collaborating on core module breakdown (e.g., booking, routing, check-in systems).
- Focused on defining service interfaces, data modeling, and integration approach.

### TrackForce

Akij iBOS Ltd.

- Developed REST APIs for tracking personnel and shipment.
- Integrated SQL-based reporting to improve analytics for field teams.
- Enhanced code testability via refactored legacy logic and unit test support.

### Customs Bond Management System

REVE Systems Ltd.

- Worked on Legal Case and UD (Utilization Declaration) modules.
- Built BGMEA/BKMEA DB sync for garment export compliance.
- Used Spring Boot, Oracle DB, and Thymeleaf to deliver modules to NBR.

### Rakuten Echiba Backend

BJIT Group

- Designed GraphQL BFF layer for e-commerce modules including product and order systems.
- Reduced query latency by optimizing resolver logic and database join paths.
- Contributed to internal tooling for reusable GraphQL schema and service patterns.

# PROGRAMMING SKILLS

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**Languages:** Java (8, 11, 17, 21), SQL, JavaScript, Python

**Backend Frameworks:** Spring Boot, Spring Security, JPA/JDBC, GraphQL, JavaEE

**Architecture:** Microservices, REST, GraphQL BFF, API Design, Modular Monolith

**Databases:** Oracle SQL, PostgreSQL, SQL Server, MySQL

**Tools & Practices:** Git, Docker, CI/CD, UML, JIRA, IntelliJ, DataGrip, Monitoring, Log Analysis

**Technologies:** OAuth2, JWT, Thymeleaf, React (integration level), Camunda, Drools

**Domain Knowledge:** Financial Systems, Incident Management, ITIL Processes

**Operating Systems:** Linux/Unix

**Concepts:** OOP, Design Patterns, Query Optimization, Testable Code, Secure APIs, Agile/Scrum

# RESEARCH & PUBLICATIONS

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## JOURNALS

- Impact of COVID-19 on mental health: A quantitative analysis of anxiety and depression based on regular life and internet use  
*Current Research in Behavioral Sciences, 2021, 2, 100037*
- COVID-19 and Bangladesh: Situation report, comparative analysis, and case study  
*Current Research in Behavioral Sciences, 2021, 2, 100034*
- Impactful e-learning framework: A new hybrid form of education  
*Current Research in Behavioral Sciences, 2021, 2, 100038*

## CONFERENCES

- Future City of Bangladesh: IoT Based Autonomous Smart Sewerage and Hazard Condition Sharing System  
*IEEE WIECON-ECE, 2020*
- Deep Learning Model for Detecting and Diagnosing Plant Disease  
*SMART GENCON, 2021*
- TraFoo: An Android Application for Food Delivery in Train  
*SMART GENCON, 2021*
- Pandemic Effect on Education System Among University Students  
*Springer: Progress in AI & Robotics, 2022*
- Cyber Security Intruder Detection Using Deep Learning Approach  
*Springer: Info. Systems & Mgmt. Science, 2023*
- A New Chaotic-Based Analysis of Data Encryption and Decryption  
*Springer: Advances in Data Science and AI, 2023*
- Machine Learning-Based Prediction of COVID-19: A Robust Approach for Early Diagnosis and Treatment  
*Springer: Trends in Computational and Cognitive Engineering, 2024*

# EXTRA-CURRICULAR ACTIVITIES

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- **Conference Speaker**  
*Delivered a technical session at the 10th IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2024 (IEEE WIECON-ECE 2024).*
- **Guest Speaker**  
*Presented a talk on “How to Get Started: Undergraduate Research Journey” organized by the Computer & Programming Club, Daffodil International University.*
- **Vice President, Research & Career Wing**  
*Led mentorship programs, research workshops, and career initiatives at the Computer & Programming Club, Daffodil International University (2021).*
- **Technical Lead, “Take Off – 2020”**  
*Managed technical operations and project logistics for the university-wide tech event.*
- **Organizing Member, “Take Off – 2019”**  
*Contributed to event planning and programming contest organization for the annual tech competition.*