

Md. Mosfikur Rahman

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Career Objective

Proactive Software Engineer with profound knowledge and skills in Java development, data science, and machine learning. Aggregating practical experience in developing scalable applications, optimization of database performance, and the integration of cutting-edge technology, I am committed to taking an active part in the most innovative research and development projects. My career spans from software engineering in enterprise solutioning to full-stack development, complemented by active involvement in research collaborations and a solid academic background. I am greatly looking forward to bringing my technical skills and research interests into play for driving innovation, hence making impactful contributions toward key projects, whether in academia or industry.

Education

2021	Bachelor of Science (B.Sc.) in Computer Science and Engineering Daffodil International University, Bangladesh	(CGPA: 3.83/4.00)
2021	Exchange Program in Computer Science and Engineering Adam Mickiewicz University, Poland	(Passed with 80% Marks)
2016	Higher Secondary School Certificate Major General Mahmudul Hasan Adarsha College, Tangail	(GPA: 4.67/5.00)
2014	Secondary School Certificate Police Lines Adarsha High School, Tangail	(GPA: 5.00/5.00)

Research Interest

- Data Science
- Machine Learning
- Artificial Intelligence
- Internet of Things
- Software Development

Journals

Rahman, Md. Mosfikur, Mohd. Saifuzzaman, Akash Ahmed, Mahfuja Ferdousi Mahin Mahin, and Syeda Farjana Shetu (2021). "Impact of COVID-19 on mental health: A quantitative analysis of anxiety and depression based on regular life and internet use". In: *Current Research in Behavioral Sciences* 2, p. 100037. ISSN: 2666-5182. DOI: [10.1016/j.crbeha.2021.100037](https://doi.org/10.1016/j.crbeha.2021.100037).

Saifuzzaman, Mohd, **Rahman, Md. Mosfikur**, Syeda Farjana Shetu, and Nazmun Nessa Moon (2021). "COVID-19 and Bangladesh: Situation report, comparative analysis, and case study". In: *Current Research in Behavioral Sciences* 2, p. 100034. ISSN: 2666-5182. DOI: [10.1016/j.crbeha.2021.100034](https://doi.org/10.1016/j.crbeha.2021.100034).

Shetu, Syeda Farjana, **Rahman, Md. Mosfikur**, Akash Ahmed, Mahfuja Ferdousi Mahin Mahin, Md. Abtab Uddin Akib, and Mohd. Saifuzzaman (2021). "Impactful e-learning framework: A new hybrid form of education". In: *Current Research in Behavioral Sciences* 2, p. 100038. ISSN: 2666-5182. DOI: [10.1016/j.crbeha.2021.100038](https://doi.org/10.1016/j.crbeha.2021.100038).

Conferences

- Rahman, Md. Mosfikur**, Mohammad Abul Kashem, Mohammad Mohiuddin, Mohammad Alam Hossain, and Nazmun Nessa Moon (Dec. 2020). “Future City of Bangladesh: IoT Based Autonomous Smart Sewerage and Hazard Condition Sharing System”. In: *2020 IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE)*, pp. 126–130. DOI: [10.1109/WIECON-ECE52138.2020.9397950](https://doi.org/10.1109/WIECON-ECE52138.2020.9397950).
- Moon, Nazmun Nessa, Ms. Shayla Sharmin, Refath Ara Hossain, Israt Jahan, Fernaz Narin Nur, and **Rahman, Md. Mosfikur** (2021). “Deep Learning Model for Detecting and Diagnosing Plant Disease”. In: *2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)*, pp. 1–8. DOI: [10.1109/SMARTGENCON51891.2021.9645857](https://doi.org/10.1109/SMARTGENCON51891.2021.9645857).
- Rahman, Md. Mosfikur**, Musfikur Rahman Foysal, Nazmun Nessa Moon, and Fernaz Narin Nur (2021). “TraFoo: An Android Application for Food Delivery in Train”. In: *2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)*, pp. 1–7. DOI: [10.1109/SMARTGENCON51891.2021.9645900](https://doi.org/10.1109/SMARTGENCON51891.2021.9645900).
- Yesmin, Farzana, **Rahman, Md. Mosfikur**, Mohd. Saifuzzaman, and Nazmun Nessa Moon (2022). “Pandemic Effect on Education System Among University Students”. In: *Progresses in Artificial Intelligence & Robotics: Algorithms & Applications*. Ed. by Luigi Troiano, Alfredo Vaccaro, Nishtha Kesswani, Irene Díaz Rodriguez, and Imene Brigui. Cham: Springer International Publishing, pp. 157–168. ISBN: 978-3-030-98531-8. DOI: [10.1007/978-3-030-98531-8_16](https://doi.org/10.1007/978-3-030-98531-8_16).
- Islam, Tariqul, **Rahman, Md. Mosfikur**, Md. Ismail Jabiullah, and Mohd. Saifuzzaman (2023). “Cyber Security Intruder Detection Using Deep Learning Approach”. In: *Information Systems and Management Science*. Ed. by Lalit Garg, Dilip Singh Sisodia, Nishtha Kesswani, Joseph G. Vella, Imene Brigui, Peter Xuereb, Sanjay Misra, and Deepak Singh. Cham: Springer International Publishing, pp. 518–530. ISBN: 978-3-031-13150-9. DOI: [10.1007/978-3-031-13150-9_42](https://doi.org/10.1007/978-3-031-13150-9_42).
- Johora, Fatema Tuj, Alamin-Ul-Islam, Farzana Yesmin, and **Rahman, Md. Mosfikur** (2023). “A New Chaotic-Based Analysis of Data Encryption and Decryption”. In: *Advances in Data Science and Artificial Intelligence*. Ed. by Rajiv Misra, Nishtha Kesswani, Muttukrishnan Rajarajan, Bharadwaj Veeravalli, Imene Brigui, Ashok Patel, and T. N. Singh. Cham: Springer International Publishing, pp. 455–468. ISBN: 978-3-031-16178-0. DOI: [10.1007/978-3-031-16178-0_32](https://doi.org/10.1007/978-3-031-16178-0_32).
- Johora, Fatema Tuj, Israt Binte Mahfuja, A. N. M. Masuqur Rahman, **Rahman, Md. Mosfikur**, and Md Sadekur Rahman (2024). “Machine Learning-Based Prediction of COVID-19: A Robust Approach for Early Diagnosis and Treatment”. In: *Proceedings of the Fifth International Conference on Trends in Computational and Cognitive Engineering*. Ed. by M. Shamim Kaiser, Raghvendra Singh, Anirban Bandyopadhyay, Mufti Mahmud, and Kanad Ray. Singapore: Springer Nature Singapore, pp. 205–215. ISBN: 978-981-97-1923-5. DOI: [10.1007/978-981-97-1923-5_16](https://doi.org/10.1007/978-981-97-1923-5_16).

Research Collaborations

- **Elsevier Reviewer**, Current Research in Behavioral Science.
- **Elsevier Reviewer**, ISA Transactions.
- **Elsevier Reviewer**, Natural Language Processing Journal.
- **Elsevier Reviewer**, Journal of King Saud University - Computer and Information Sciences.
- **Reviewer**, 2022 4th International Conference on Deep Learning, Artificial Intelligence and Robotics.
- **Reviewer**, 2022 International Conference on Information Systems and Management Science.
- **Reviewer**, 2022 International Conference on Communication and Information Systems.

Work Experiences

Software Engineer, REVE Systems Ltd.

July 2023 - Present

- Develop and implement scalable Java applications using advanced design patterns.
- Optimize data structures in Oracle DB for efficient storage and retrieval.
- Research and integrate new tools, libraries, APIs, and frameworks for enhanced performance.

Software Engineer, BJIT Group

April 2022 - June 2023

- Implement JavaEE back-end/API using REST, SOAP, Spring, and microservices.
- Build enterprise apps using modern Java web frameworks and Thymeleaf.
- Create fundamental design documents, including API specifications and UMLs.

Trainee Software Engineer, BJIT Group

October 2021 - March 2022

- Acquired foundational knowledge in software engineering through structured training.
- Assisted in coding, debugging, and testing while learning industry best practices.
- Developed skills in JavaEE, REST, SOAP, Spring, and front-end technologies.

Projects

Customs Bond Management System, NBR

[Link to Demo](#)

Responsibilities:

- Held key roles across various modules of the CBMS project for the National Board of Revenue (NBR).
- Acted as the module owner including Legal and Case Information System, Utilization Declaration System.
- Implemented BGMEA and BKMEA Database integration for Utilization Declaration.
- Employed a diverse tech stack comprising Spring Boot, Thymeleaf, and Oracle DB for project execution.

Rakuten Echiba Backend Development, Rakuten

[Link to Demo](#)

Responsibilities:

- Solely focused on backend development for the Rakuten Echiba project utilizing Spring Boot framework.
- Managed Oracle database operations to ensure seamless data handling.
- Led the implementation of a custom framework tailored to meet project-specific requirements.

Denka Pharmaceuticals Full-stack Development, Denka

[Link to Demo](#)

Responsibilities:

- Engaged in both backend and frontend development for Denka Pharmaceuticals.
- Utilized Spring Boot and Thymeleaf for backend and frontend development, respectively.
- Contributed to frontend enhancements using React JS.
- Managed data storage and retrieval using MySQL database.

Mochida Pharmaceuticals Backend Development, Mochida

[Link to Demo](#)

Responsibilities:

- Developed backend functionalities for Mochida Pharmaceuticals using Spring Boot and Spring Batch.
- Implemented a unique database solution named Spiral DB to optimize data management processes.

Skills

Core Skills	OOP, REST API, SOAP, Micro-services, Data Structures, UML, Code Review
Programming Languages	Java, JavaScript, Python
Frameworks	Spring Boot, Spring Batch, Bootstrap, Thymeleaf, React JS
Technical Tools	Git, Postman, IntelliJ IDEA, DataGrip
Database Expertise	Oracle, MySQL, MongoDB, Spiral DB

Extracurricular Activities

- **Guest Speaker**, entitled “How to get started: Undergraduate Research Journey”, organized by Computer & Programming Club, Daffodil International University.
- **Vice President**, Research & Career Wing (2021), Computer & Programming Club, Daffodil International University.
- **Organizing Member**, Programming Contest, “Code-Throw”, organized by Computer & Programming Club, Daffodil International University.
- **Technical Lead**, “Techno-Programming Contest”, organized by Computer & Programming Club, Daffodil International University.

References

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