

SADMAN SAKIB AKASH

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[LinkedIn](#) ◊ [GitHub](#) ◊ [Google Scholar](#) ◊ [Personal Website](#)

ACADEMIC CREDENTIALS

Master of Science (M.Sc.) in Computer Science and Engineering
BRAC University, Dhaka, Bangladesh

January, 2020 – Present
CGPA : 4.00/4.00 (18/36 credits)
Expected completion time: *June, 2022*

Bachelor of Science (B.Sc.) in Computer Science
BRAC University, Dhaka, Bangladesh

January, 2014 – December, 2018
CGPA : 3.56/4.00

RESEARCH EXPERIENCE

M.Sc. Research Work

March, 2021 – Present

Thesis title: “*A Blockchain based system for Healthcare Digital Twin*”.

A concrete Mathematical Data Model has been developed to collect data structurally and to harmonize with the proposed blockchain based healthcare digital twin.

Research Supervisor: Dr. Md Sadek Ferdous

Expected completion time: *June, 2022*

M.Sc. Course Work (Decision Support Systems: CSE799)

September, 2020 – December, 2020

Research title: “*Intelligent Fuzzy-AHP and VIKOR based Personalized Product Recommendation System*”.

A recommendation system incorporating Analytical Hierarchical Process (AHP), Fuzzy Analytical Hierarchical Process (Fuzzy-AHP), and Vikor, which can recommend specific type of an item to specific user by assessing the collected data.

Research Supervisor: Dr. Md. Golam Rabiul Alam

M.Sc. Course Work (Computer Communication and Networks: CSE705)

January, 2021 – March, 2021

Research title: “*An Empirical Analysis Between Run-length and Dictionary Compression Technique*”.

The code has been implemented for comparing two of the lossless compression techniques: Run-length and Dictionary compression algorithm for specific reasoning. Moreover, the favorable states for which these two compression algorithms can be used are stated according to the acquired result.

B.Sc. Research Work

January, 2018 – December, 2018

Thesis title: “*Proof of Rigor: Consensus Protocol on a Cryptocurrency Scheme*”.

A consensus protocol has been proposed and delineated with proper structure and operations.

Research Supervisor: Dr. Mahbubul Alam Majumdar

PROFESSIONAL EXPERIENCE

Lecturer (Part-time)

September, 2019 – May, 2020

Department of Computer Science and Engineering

BRAC University, Dhaka, Bangladesh

PUBLICATION

“*A Blockchain based system for Healthcare Digital Twin*” - submitted to IEEE Access.

“*Intelligent Fuzzy-AHP and VIKOR based Personalized Product Recommendation System*” - submitted to International Conference on Innovations in Science, Engineering and Technology 2022 (ICISSET 2022).

“*An Empirical Analysis between Run-length and Dictionary Compression Technique*” - submitted to International Conference on Innovations in Science, Engineering and Technology 2022 (ICISSET 2022).

AFFILIATIONS

Member of BRAC University Computer Club, BRAC University. ID: 18341007

PROJECTS

Distributed Computing Systems course project: “*Blockchain-based Land Registration*”
Proposed draft model.

M.Sc. 1st Semester

Software Engineering course project: “*Nutrient Updater*”
Tools: Html, CSS, JavaScript, PHP, MySQL.

B.Sc. 10th Semester

STANDARDIZED TEST SCORES

Graduate Record Examinations (GRE)

(Test Taking Date: 29th July, 2020)

Overall	Quantitative Reasoning	Verbal Reasoning	Analytical Writing
308	159	149	3.0

International English Language Testing System (IELTS)

(Test Taking Date: 26th October, 2021)

Overall	Writing	Listening	Reading	Speaking
7.0	6.0	8.5	6.0	6.5

EXTRA-CURRICULAR ACTIVITIES

Seminar at BRAC University on “*Introduction to Blockchain*”.
Role: Speaker
Participants: 47 Students and 7 Faculties.

30th June, 2019

BRACathon’19 - Technology for Social Change
Micro-finance Sector (Runners-up)
Group name: BRACU.CryptoRangers.

4th July, 2019

TECHNICAL SKILLS

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|-------------------|--------------|
| 1. Java | 6. HTML |
| 2. Python | 7. Microsoft |
| 3. Android Studio | 8. LaTeX |
| 4. JavaScript | |
| 5. PHP | |

LINGUISTIC PROFICIENCY

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| 1. English (Full professional proficiency) | 2. Bangla (Full professional proficiency) |
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REFERENCES

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| 1. Mahbubul Alam Majumder, PhD
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School of Data and Sciences, Department of Mathematics and Natural Sciences
BRAC University
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