Mst. Shafiatun Nur Shimu

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OBJECTIVE

Motivated Computer Science graduate with strong academic background and a deep passion for teaching and research. I aim to contribute as a Lecturer by creating an engaging learning environment, mentoring students and encouraging critical thinking in both theoretical and practical aspects. Committed to continuous growth, I strive to promote quality teaching and impactful research while supporting the academic and co-curricular growth of students.

EDUCATION

B.Sc. in Computer Science and Engineering — Jan 2020 – Aug 2025
Khulna University of Engineering and Technology — ***CGPA: 3.79/4.00***
Merit position: 12th (out of 121 students)

HSC (Rajshahi Board) — Jul 2017 – May 2019
Govt. Azizul Haque College, Bogura — ***GPA: 5.00/5.00***

SSC (Rajshahi Board) — Jan 2015 – Feb 2017
Bogra Govt. Girls' High School, Bogra — ***GPA: 5.00/5.00***

WORK EXPERIENCE

Data Analyst (Remote) — Apr 2025 - Aug 2025
Q1 Edit Research Academy
Assisted in various research projects involving data preprocessing, model development and result analysis.

RESEARCH EXPERIENCE

Undergraduate Thesis
Title: "A Multi-Stage Encryption Technique Using Various Randomized Encryption Techniques"
Implemented a multi-stage encryption and decryption technique for audio and text data using asymmetric and symmetric key cryptography, ensuring stronger data privacy. Supervised by Dr. Kazi Md. Rokibul Alam, Professor, CSE, KUET

Collaborative Research Work
Title: "Blockchain-Powered Refugee Identity System with KYC and ZKP Integration."
Developed a blockchain-based decentralized, privacy-preserving identity verification system on Ethereum using KYC and Zero-Knowledge Proofs (ZKP) to enhance secure access to essential services for refugees.

PUBLICATIONS

"A Successive Encryption Technique by Multiple Randomized Techniques for Fortified Data Privacy" submitted to ICCIT 2025, 28th International Conference on Computer and Information Technology (under review).

SKILLS

Research Fields	: Cryptography, Blockchain, Machine Learning, Artificial Intelligence
Programming and Web	: Python, C, C++, Java, PHP, HTML/CSS, Latex
Database Management	: MySQL, PL/SQL, Firebase
Tools and Frameworks	: Laravel, Android Studio, Jupyter Notebook, VS Code, IntelliJ
Personal Skills	: Teamwork, Communication, Mentoring, Critical Thinking, Problem Solving

ACHIEVEMENTS AND AWARDS

Dean's Award
Dean's Award from The Honorable Dean of Faculty of Electrical and Electronic Engineering (EEE), KUET for excellent results (1st year-3rd year). 2020, 2021, 2022

Three Minute Thesis (3MT), KUET
My thesis abstract showcased among the **Top-30** abstracts. 2025

Seerah Competition & Conference, KUET
Participated in quiz and Amal challenge and became **4th** among girls. 2024

Government Scholarship (JSC, SSC, HSC)
Government Scholarships at all three public examination levels including a Talent Pool Scholarship **(5th merit position among girls, Rajshahi Board)** in SSC. 2014, 2017, 2019

Regional Champion, Math Olympiad
Secured the Regional Champion title in the Math Olympiad in Bogura region. 2019

EXTRA-CURRICULAR ACTIVITIES

Senior Executive Member, BitFest 2.0, KUET
Organized the Hackathon Segment of BitFest 2.0 (3rd KUET CSE National Fest). 2025

Member, KUET Debating Society (KDS)
Participated in The Freshers' League as a Team named "The Bachal Koshais". Feb 2020 - Aug 2025

Hall Committee, Rokeya Hall, KUET
Member of Dinning and Floor Monitoring Committee, Rokeya Hall, KUET. Sep 2024 - Aug 2025

MAJOR PROJECTS

AI for Sustainable Supply Chains (ML | Python) 🔗
Developed an end-to-end framework using machine learning (Random Forest, XGBoost and Linear Regression comparison) to predict and mitigate supply-chain carbon emissions. 2025

A Modern Mosque (Graphics | OpenGL 3.3) 🔗
A modern mosque using OpenGL3.3, incorporating various library functions and physics-based implementations to create realistic structures, lighting and interactive visual effects. 2025

Automobile Shop Database Management System (DBMS | Oracle | PL/SQL) 🔗
Created a database management system for vehicle management using SQL and PL/SQL for efficient data storage, retrieval and query optimization, ensuring seamless record management. 2023

Go Packman Go (Python | A* | GA | Minimax) 🔗
An AI project using different AI algorithms (A*, Alpha-Beta minimax, Genetic Algorithm) while incorporating adjustable difficulty levels to enhance gameplay and test algorithm performance. 2024

E-Shop (Laravel | MySQL | Mailtrap | Twilio | Stripe) 🔗
A full-featured E-commerce website using Laravel, integrating a MySQL database, secure payment gateways and automated SMS, email notifications, ensuring smooth user experience. 2023

NewsINFINITY (Android | Java | Firebase) 🔗
An android application using Android Studio, with Firebase integration, featuring two panels to allow both writers and readers to interact, manage content, and enjoy a seamless user experience. 2022

Complete Compiler Project (Flex | Bison | C) 🔗
A compiler designed to parse a custom language code into C program(declaration, if-else, loop etc). 2023

GadgetShop (iOS | Swift | Firebase) 🔗
An iOS gadget shop app using Swift, allowing users to log in, browse and search for gadgets, view products category-wise and enjoy a seamless, user-friendly shopping experience. 2023

Advanced Traffic Management system(Arduino UNO | Sensor | Motor | LCD | LED) 🔗
A peripheral project designed to control traffic signals and enhance road safety. 2023

REFERENCE

Dr. Kazi Md. Rokibul Alam
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