Md. Shahrukh Islam

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Personal Profile

A dedicated and passionate Computer Science and Engineering graduate with a strong foundation in software engineering and machine learning. Possessing a deep interest in advancing the field through innovative research and development, I have demonstrated my capabilities through various academic projects, internships. With a keen eye for problem-solving and a commitment to academic excellence, I aim to contribute to cutting-edge research and develop solutions that address real-world challenges. I am particularly interested in artificial intelligence, cyber-security, federated learning and aspire to collaborate with leading experts in the field to further my knowledge and skills. My goal is to leverage my technical expertise and research acumen to make significant contributions to the academic community and the broader tech industry.

Education

Bangladesh University of Engineering and Technology
Dhaka, Bangladesh

B.Sc. Engg. in Computer Science and Engineering (CG: 3.69 out of 4.00)   *Apr 2019 - June 2024*

- Secured 170th position in admission test.
- **Courses:** Artificial Intelligence, Machine Learning, Structural and Object Oriented Programming, Data Structure and Algorithms, Database, Theory of Computation, Compiler, Operating Systems, Computer Networks, Computer Security, Computer Architecture, Information System Design, Software Engineering, Computer Graphics, Discrete and Concrete Mathematics, Algorithm Engineering etc.

Notre Dame Collge
Dhaka, Bangladesh

H.S.C. (GPA: 5.00/5.00 (A+ in all subjects).   *Jul 2016 - May 2018*

- Secured 56th position in Dhaka board.
- Got perfect attendance certificate.

Government Laboratory High School
Dhaka, Bangladesh

S.S.C. (GPA: 5.00/5.00)   *Jan 2006 - March 2016*

- Consistently placed in the top 5 in school final results seven times and in the top 3 five times, demonstrating academic excellence and a strong dedication to learning.

Work Experience

Samsung R&D Institute
Dhaka, Bangladesh

Software Engineer   *Jul 2024 - Present*

- **Technical Skills:** Ubuntu Linux, Linux tools, Git, .NET, C#, C, C++.

MySoft Ltd - Health Data Analysis
Dhaka, Bangladesh

Virtual Intern   *May 2023 - June 2023*

- Worked with structure of clinical laboratory, environmental, and census data.
- Worked in data preprocessing, noise reduction, missing value imputation, normalization, and standardization, aggregation, correlation, and data visualization.

Udvash Academic & Admission Care
Dhaka, Bangladesh

Mathematics Instructor   *Jan 2019 - Feb 2024*

- As one of the top coaching centers, Udvash is well-known for its skill in helping students prepare for engineering admissions and for earning their High School Certificate (H.S.C.) and Secondary School Certificate (S.S.C.).
- Facilitated more than 400 teaching sessions, showcasing proficiency in clearly and easily explaining complex ideas.
- Over 4,000 students in a varied cohort were mentored by me, providing individualized instruction and cultivating a positive

10 Minute School
Dhaka, Bangladesh

Academic Guide Book Writer   *Oct 2021 - Feb 2022*

- Writing academic books for grades 9–10.
- Six chapters of both general math and higher math were covered.

Research Experience

ClientShield: Malicious Clients Avoidance in Federated Learning with the Help of an Ant
Dhaka, Bangladesh

Somonindro Roy, **Md. Shahrukh Islam**, Md Adnan Arefeen, Muhammad Ali Nayeem   *May 2023 - Present*

- Undergraduate thesis under the supervision of Dr. Muhammad Ali Nayeeem, Assistant Professor, CSE, BUET
- Accepted as poster in GECCO 2024 conference and Working on it to publish in journal
- **Technical Skills:** ML, CNN, NLP.

Extract MITRE Techniques from Cyber Threat Report using LLM

Dhaka, Bangladesh

Md. Azizur Rahman Anik, K.M. Fahim Shahriyar, *Md. Shahrukh Islam*, Md. Ashraful Islam,

April 2023 - Present

Md. Shohrab Hossain

- Research under Dr. Md. Shohrab Hossain (Professor, CSE, BUET)
- Automate the extraction of Tactics, Techniques, and Procedures
- **Technical Skills:** Web Scrapping, AI Model, Cyber Attacks.

University Projects

Toxic Comment Classification

Dhaka, Bangladesh

Bangladesh University of Engineering and Technology

Jan 2024 - Feb 2024

- Machine learning project developed with CNN.
- Used CNN and bi-directional LSTM.
- **Technical Skills:** ML, CNN, NLP.

Programming for Kids

Github Link

Bangladesh University of Engineering and Technology

June 2023 - Sep 2023

- A programming learning platform as software development project designed for kids with interactive tutoring.
- Sequential weekly lessons, exam on MCQ and programming problems.
- Hints if stuck on problems and recommendation system with AI.
- **Technical Skills:** Flask, React, PostgreSql, Git.

Skills

Research	Data Collection and Analysis, Literate Review, Experimental Design, Research Methodologies.
Technical	Python (Django, Flask, Pandas, TensorFlow, PyTorch, Pandas, NumPy, Scikit-learn. etc.), C/C++, Java, C++, C# (.NET), Software Development, Machine Learning and AI, Data Science and Big Data Technologies, Databases (SQL, NoSQL).
Academic	Academic Writing and Publication, Conference Presentations, Peer Review, Curriculum Development.
Tools	Git, GitHub, IntelliJ IDEA, JIRA, Visual Studio, Eclipse, Microsoft Office
Soft Skills	Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Achievements

2024	**Dean's List, BUET**, for academic excellence in final year	*Bangladesh*
2022	**Dean's List, BUET**, for academic excellence in second year	*Bangladesh*
2021	**Dean's List, BUET**, for academic excellence in first year	*Bangladesh*
2018	**Talent-pool Scholarship, Bangladesh Government**, for excellent result (56th in Dhaka board) in HSC 2018	*Bangladesh*

Certifications

Python For Everybody (Specialization)

Coursera

University of Michigan

2020

Deep Learning (Specialization)

Coursera

DeepLearning.AI

Ongoing

Object Oriented Programming in Java (Specialization)

Coursera

Duke University, University of California San Diego.

2020

Languages

English	Professional proficiency
Bangla	Native proficiency

References available upon request.