

A. S. M. SAMIUL ISLAM

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[LinkedIn](#) | [GitHub](#)

RESEARCH INTERESTS

Human-Computer Interaction (HCI) • User Experience Research • AI-Powered Software • Embedded Machine Learning • Deep Learning • Mental Health Technology

EDUCATION

Master of Science in Management of Technology (MOT) October 2024 – Present
Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
• CGPA: 3.80/4.00 (Up to 2nd Semester)

Bachelor of Science in Computer Science and Engineering 2019 – 2023
North South University, Dhaka, Bangladesh
• CGPA: 3.59/4.00 | 50% Merit Scholarship | Distinction: **CUM LAUDE**

Higher Secondary Certificate (HSC), Science July 2016 – June 2018
Govt. Azizul Haque College, Bogura, Bangladesh | GPA: 5.00/5.00

Secondary School Certificate (SSC), Science February 2011 – June 2016
Bogra Zilla School, Bogura, Bangladesh | GPA: 5.00/5.00

PROFESSIONAL APPOINTMENTS

Postgraduate Research Fellow November 2024 – Present
Institute of Appropriate Technology, BUET, Dhaka, Bangladesh
• Developing IoT-based assistive communication framework for blind, deaf, and mute individuals
• Building gesture vocalizer using NLP and ML for real-time gesture-to-speech/text translation
• Developing embedded ML gesture-recognizing gloves for multimodal communication

UI/UX Designer and Researcher August 2023 – April 2024
Seed of Intelligence, Mirpur DOHS, Dhaka (Korea-operated)
• Designed AI-powered CCTV-based Video Software as a Service (VSaaS) platform
• Created user flows, schema diagrams, and game UI integrated with VSaaS system
• Designed user diagrams for connected online chat software

ACHIEVEMENTS

- **UIHP Pre-seed Grant**, Team Arora, Cohort IC5, University Innovation Hub Program at BUET (2024)
- **CUM LAUDE Distinction**, North South University (2022)
- **50% Merit Scholarship**, North South University (2019–2022)
- **17th Position**, 3rd Bangladesh Physics Olympiad
- **Divisional 2nd Runner Up**, 9th and 10th Bangladesh Math Olympiad
- **Two-time Champion**, Fast Cubing Competition, Math Olympiad
- **Best Organizer Award**, 2nd NDF BD Rajshahi Devotional Debate Festival
- **National Champion**, NCTF Team, Annual Debate Competition by World Vision
- **Second Runner Up**, Epitome Competition, NSU HR Club
- **First Position (Team)**, Acting Competition, BTV Subarna Jayanti

TEACHING EXPERIENCE

Teaching Assistant, Department of Mathematics and Physics June 2021 – January 2022
North South University, Dhaka, Bangladesh
• Assisted five professors in course delivery and student assessment
• Provided academic consultation to undergraduate students

RESEARCH EXPERIENCE

BD Pedestrian and Overtaking Action Recognition for Driver Assistance

Undergraduate Research Project, North South University

- Collected and annotated 10+ hours of video dataset for deep learning models
- Developed computer vision algorithms for real-time action recognition
- Improved recognition accuracy for driver assistance systems in Bangladesh

Hakuna Matata – Mental Health Social Network Platform

Undergraduate Research Project, North South University

- Designed user-centered interfaces using HTML, CSS, and JavaScript
- Conducted user research on mental health community engagement
- Applied HCI principles to create accessible digital environment

SERVICE

University Service

Vice President, NSU HR Club, North South University

March 2022 – October 2023

- Organized “HR SPEAKS OUT 4.0” seminar with 700+ attendees
- Led IT, promotional, and strategic planning activities
- Managed recruitment of 300+ members

Sub-Executive (November 2020 – March 2022) | *Senior Member* (March 2020 – November 2020)

Community Service

Panel Deputy Speaker, Child Parliament of NCTF, Bangladesh

May 2016 – June 2018

- Prepared speakers for presentations to government ministers
- Facilitated pitches to Education Minister and Deputy Speaker of National Parliament

Trainer and UDRT Member, Bangladesh Red Crescent Society, Bogra Unit

March 2015 – August 2016

- Completed disaster management training by Canadian Red Cross
- Led disaster relief operations in Sariakandi, Bogura

Unit Leader, Bogra Zilla School Red Crescent Unit

October 2013 – October 2015

- Led team of 100+ active and 300 regular members
- Coordinated relief aid to 100+ flood-affected families

LANGUAGES AND SKILLS

Languages

Bengali: Native | **English:** Professional Proficiency

Technical Skills

Programming: Python, C/C++, Java, JavaScript, Swift

Web Technologies: HTML, CSS, Bootstrap, SQL

Mobile Development: iOS (Swift, Xcode)

Design: UI/UX Design, AutoCAD (2D/3D)

Embedded Systems: Arduino Uno, NodeMCU

Data Science: Google Colab, NumPy, Pandas

Tools: Git, MS Office Suite, Google Workspace, LaTeX

PROFESSIONAL DEVELOPMENT

Supervised Machine Learning: Regression and Classification

August 2025

DeepLearning.AI & Stanford University, Coursera

Credential: coursera.org/verify/6I4AZ2IH4ANS

Google UX Design Professional Certificate

Google, Coursera

7-course specialization: UX foundations, wireframing, prototyping, Figma

Credential: [lnkd.in/dDCmw4MP](https://www.linkedin.com/showcase/ddcmw4mp)

The Complete 2021 Web Development Bootcamp

Udemy, September 2021

Credential: [UC-31cfe125-f6cb-405c-9432-e008b56b7f0f](https://www.udacity.com/course/uc-31cfe125-f6cb-405c-9432-e008b56b7f0f)

REFERENCES

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