Md Zakaria Hossen Emon

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Education

Military Institute of Science and Technology (MIST)
B.Sc in Computer Science & Engineering   2021–2025

Experience

Jr. SQA Engineer at Madhumati IT Ltd. Dhaka, Bangladesh   Sep 2025–Present
– Working on an MCQ OMR Sheet Detection Software project, functional and validation tests.
– Designed and executed test cases to ensure accurate detection and result generation.
Industrial trainee at Teletalk Bangladesh Ltd.   Feb 2024–Mar 2024
– hands-on insights into call transmission and telecom operations.

Projects

Manual Testing – On Functional Testing, Smoke Testing, Negative Testing   [Link]
Automation Testing – Automated Regression Testing using Playwright.
– Login Logout function.
– Generate summary from a video.
– Play an audio of the summary.   [Link]
Smart Cafeteria System Technology: Flutter, Firebase   Jun 2023–Dec 2023
– Requirement analysis, Login, Search Function, User Acceptance Test(UAT), UI testing   [Link]
Ensemble Learning in Cyberbullying Detection Using Transformer Models: A Multilingual and Explainable-AI Approach (Thesis)   May 2024–Jun 2025
– Designed transformer-based cyberbullying detection system for English, Bangla, and multilingual texts.
– Fine-tuned nine transformer models (BERT, RoBERTa, ALBERT, GPT-2, XLNet, mBERT, BanglaBERT, XLM-R, DistilBERT) and integrated them using a weighted soft voting ensemble approach.

Technical Skills

Cybersecurity: Cryptography, OSINT, Digital Forensics, Networking
Programming: C++, MySQL, JavaScript
Tools: Wireshark, Postman, JIRA, JMeter, Playwright
Version Control: Git, GitHub
Testing: Smoke Test, Performance Testing, Usability Testing, User Acceptance Testing (**UAT**), Functional Testing, Regression Testing, **API testing(Postman)**

Achievements

- **5th place at EWU National Robo Fest CTF 2024**   Nov 2024
- **27th place at BUET Inter-University Capture the Flag 2024 Final round**   Jul 2024
- **28th place at Cefalo presents ITverse-2023 Cyber Crawler CTF**   Nov 2023
- **18th Place at BUET Inter-University CTF 2023**   Jul 2023
- **22nd place at SUST SWE Technovent 2023 CTF Final Round**   Jan 2023
- **13th Independent Day Programming Contest 2023**   Apr 2023
- **24th Independent Day Programming Contest 2022**   Apr 2022