Mir Lutfur Rahman

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➤ Objectives

I strongly intend to deliver my skills and innovative ideas as a software engineer. I want to work in a professional environment to cope up with the competitive world and contribute to the society.

➤ Education

North East University Bangladesh (NEUB), Sylhet
B. Sc. (Engg.) in Computer Science & Engineering, (2014 - 2018)

Madan Mohan College, Sylhet
Higher Secondary Certificate (HSC), 2013

Pashchim Sadar High School & College, Sylhet
Secondary School Certificate (SSC), 2011

➤ Work Experience

Lecturer
Department of Computer Science & Engineering
North East University Bangladesh (NEUB), Sylhet
May, 2018 - Present

Web Developer (Remote)
Veechi Technologies, Sylhet
February, 2018 – July, 2018

➤ Achievements

Champion
Rescue Robot Competition, TechHunt, 2017

4th Place
Robotics Contest, SUST CSE Carnival, 2017

2nd Runner Up
International Robotics Challenge, IIT Bombay (Final Round), 2016-17

Champion
Youth Innovation Competition Solve-A-Thon, Sylhet Divisional Round, 2016

5th Place
Best Young Innovator, Sylhet Digital Innovation Fair, 2016

2nd Runner Up
SRC Robo-fight competition, 2016

➢ Projects

Extra Oral Dental Aerosol Suction Device
The goal of this project was to develop a system which will be used in dental treatment in COVID-19 pandemic. It will suck the contaminated aerosol from patient mouth and pass it through high efficient (H-13) hepa filter and activated carbon filter under UV-C sterilizations compartment. It will release pure air in the other side ensuring both patient and dentist safety.

Restaurant Ordering System
This website designed for handling online table reservation, online order of foods with online payment method. Also control panel for owner. (HTML, CSS, W3CSS, PHP, MySQL, JavaScript, Ajax, PHP Stripe API)

Online Shop
Designed and developed a web application for online shop management system. (HTML, CSS, PHP, MySQL, JavaScript, JQuery, Ajax)

Result Processing System
Designed and developed a web application for result management procedure of a university. (HTML, CSS, PHP, MySQL, JavaScript)

Library Management System
Designed and developed a web application for library book management procedure of a university. (HTML, CSS, PHP, MySQL, JavaScript, Ajax)

Online Vote Management System
Designed and developed a web application for vote management system. (HTML, CSS, PHP, MySQL, JavaScript, Ajax)

TechHunt Website
Designed and developed a web site for TechHunt mega event of North East University Bangladesh. (HTML, CSS, W3CSS, PHP, MySQL, JavaScript, Ajax)

NEUB Store Website
Designed and developed a web site for resource sharing, result storing and CGPA calculation for North East University Bangladesh CSE department students.

Electric Components Switching Over Internet
Designed and developed a desktop application using Java & Arduino. It can control the switching system of electrical components over internet

2DOF Robotic Arm
Developed a 2DOF robotic arm for sketching different shapes. It can control via Bluetooth transmission system.

Web Video Recorder System
Designed and developed a web application for video recorder system in web. (JavaScript, HTML, CSS)

Lottery System
Basically this application is developed for lottery purpose used by Digital Innovation Fair 2016 (Sylhet Zone). It was a desktop application implemented using java.

➢ SKILLS

Programming Languages: C, C++, Java, Python, PHP, JavaScript, Arduino.
Technologies: HTML5, CSS3, Ajax, W3CSS, Java OpenCv, MySQL, Oracle 11g, MATLAB.
Language Proficiency: Good writing and speaking skills in Bengali and English.

➢ Other Experience

Vice President, CSE Society, NEUB 2017-18
Organizer Leader, TechHunt 2017
Executive Member, CSE Society, NEUB 2014-15
Organized 10+ Onsite Programming Contest in NEUB
Taken 20+ ACM workshop in NEUB
Taken 10+ Software Development Workshop in NEUB
Taken 10+ Robotics Workshop in NEUB
Set many programming problems for NEUB onsite contest and for Dev Skill
Participated:
Electro Fair (Leading University), 2015
International Robotics Challenge, Bangladesh Round, 2015-16
Youth Innovation Competition Solve-A-Thon, National Round, 2016
NSU Cybernauts Robotics Contest, 2016
Speed Battle DUET Techfest, 2017
RoboMania V4.0 Esonance (IUT), 2017
ACM ICPC Asia Dhaka Regional Contest, (2015 – 2017)
National Collegiate Programming Contest (NCPC), (2015 – 2017)
SUST Inter University Programming Contest (2015, 2017)
Solved **500+** problems on different online judge (UVA, LightOJ, Codeforces, Hacker Rank, Virtual Judge)

➢ Research Works

A Faster Decoding Technique for Huffman Codes using Adjacent Distance Array
Supervisor: Ahsan Habib, Associate Professor,
        Department of Computer Science & Engineering,
        North East University Bangladesh (NEUB).

➢ Publications

Rahman, M., L., Sarker, P. and Habib, A. (2019). A faster decoding technique for Huffman codes using adjacent distance array. In: *International Joint Conference on Computational Intelligence (IJCCI)*.

Sarker, P. and **Rahman, M., L.** (2020). Introduction to Adjacent Distance Array with Huffman Principle: A new Encoding and Decoding Technique for Transliteration Based Bengali Text Compression. In: *International Conference on Advanced Computing and Intelligent Engineering (ICACIE)*.