S.M. Raihanul Alam

GRADUATED FROM BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY

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EDUCATION _____

Bangladesh University of Engineering and Technology

Dhaka, Bangladesh

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING

THESIS SUPERVISOR: Md. Saidur Rahman, Thesis Concentration: Bioinformatics, Phylogeny, Graph Theory

January 2020

- Rajshahi College, Rajshahi, Bangladesh Higher Secondary Certificate 2015, GPA: 5.00 (Board General Scholarship)
- Seroil Government High School, Rajshahi, Bangladesh Secondary School Certificate 2013, GPA: 5.00 (Board General Scholarship)

TECHNICAL SKILLS _____

Programming Languages C, C++, Java, Python, Assembly (80x86), HTML, CSS, PHP, Dart, Javascript

Machine Learning Libraries scikit-learn, Tensorflow

Mobile Application Development Android, Flutter, Android Studio

Frameworks Laravel, Node js, React, Vue, Bootstrap, Java FX, OpenGL

Database Oracle, MySQL, MongoDB, Redis

Tools and Simulators Lucidchart, Git, Wireshark, NS-2, Packet Tracer, **Operating Systems and Embedded Systems** Windows, Linux, xv6, Kali-Linux, Metasploit

Environment CLion, Pycharm, IntelliJ, PhpStorm, Emu8086, Visual Studio Code

Other Docker, Kubernetes, ELK Stack, ŁTFX, Wordpress, Microsoft Office, Powerpoint,

EXPERIENCE _____

REVE Systems

JUNIOR SOFTWARE ENGINEER (R&D)

REVE Centre, Dhaka 1212

December 2020 - Present

Shomonnoi Bangladesh (Non-profit Organization)

CHIEF TECHNICAL OFFICER (PART-TIME)

www.shomonnoibd.com

April 2020 - Dec 2020

BUET Career Club

DIRECTOR WEBSITE MANAGEMENT (PART-TIME)

www.buetcareerclub.org

November 2019 - March 2021

Online Sohopathi (Non-profit Educational Organization)

FORMER CO-FOUNDER, HR AND BACKEND DEVELOPER

105 Sukrabad Rd, Dhaka

September 2017 - November 2019

Athena Science Academy

CHEMISTRY INSTRUCTOR (PART-TIME)

167 Eden Complex, Dhaka

February 2016 - April 2018

PROJECTS _____

PROFESSIONAL PROJECTS

Kloudtalk www.kloudtalk.com

BILLING SYSTEM

- Company Gitlab repository is kept confidential
- MySQL database
- Implemented several API and modules in java
- · Worked with bash and python scripts
- Implemented IVR flow and gtts for text to speech conversion in python

Base Dialer

INSTANT MESSENGER

- · Company Gitlab repository is kept confidential
- · React frontend
- Nodejs backend to communicate with soft switch
- · Implemented features similar to messenger

Inventory Management System

MINISTRY OF FOREIGN AFFAIRS, BANGLADESH

- · Github repository is kept confidential
- · MySQL database using global php backend
- Implemented using Laravel framework
- · Features includes email authentication, real-time messenger
- · Admin approval of orders and store keeper based storage management
- PDF generator integrated
- Used cron jobs to update certain tables of database on each month

Shomonnoi Bangladesh

Non-Profit Organization

- · Github repository is kept confidential
- MySQL database using global php backend
- Implemented using Laravel framework
- Organization list that provides relief help during pandemic.
- Developed it mainly to cope up with COVID-19 situation.

ACADEMIC SOFTWARE PROJECTS

Blood Cell Detection

MACHINE LEARNING PROJECT

- YOLO V5 algorithm for object detection
- · Python programming language
- Compared results with faster R-CNN

Text Classification

MACHINE LEARNING PROJECT

- TF-IDF and Naive Bayes Comparison on a dataset
- · Python programming language

ARP Cache Poisoning

SECURITY PROJECT

- User interface using python
- · Experimented on Linux Operating system
- Basic cpp code
- No additional library used

ParkIn: A Smart Parking App

- https://github.com/hridoy100/ParkInAndroid
- MySQL database using php backend
- Implemented using Android Studio
- Used several Google Maps API
- · Firebase authentication using email address
- Dynamic user interface

Restaurant Management System

DATABASE PROJECT

- MySQL Database
- Implemented GUI using Java FXML
- MVC pattern maintained for all modules
- Dynamic user interface

Online Multiplayer Carrom Board Game

Java Networking Project

- Implemented GUI using Java FXML
- Implemented fast and efficient network-based moves using Java UDP sockets
- Mutliplayer dynamic UI support

www.erequisition.com.bd

www.shomonnoibd.com

Flappy Dragon Game in C

IGRAPHICS BEGINNER LEVEL PROJECT

- 2nd runner up in project showcase competition held in Bangladesh University of Engineering and Technology, 2017
- Implemented GUI using IGraphics in C

HARDWARE PROJECTS

Heart rate monitoring system

- Implementation of some modules using Arduino Uno
- Implementation of rest of the modules using ATmega32
- Wireless communication with GSM module using HC-05 bluetooth device

HONORS AND ACHIEVEMENTS ___

- Stood 3 rd in National Science Olympiad 2015
- Won the 2^{nd} runner up prize at project showcase competition, CSE Fest, BUET, 2017
- Stood 15 th in BUET Admission Test
- Board and Merit Scholarships for 8 successive terms in BUET
- Runner up in 7th NSysS poster presentation, 2020
- Best paper Honorary mention CHI'2021 for 'Unmochon'

SELECTED PUBLICATIONS _

'Unmochon': A Tool to Combat Online Sexual Harassment over Facebook Messenger

CHI Conference

Sultana, S., Deb, M., Bhattacharjee, A., Hasan, S., **Alam, S.M.R**, Chakraborty, T., Roy, P., Ahmed, S.F., Moitra, A., Amin, M.A., Islam, A.K.M.N., and Ahmed, S.I.,(CHI 2021)

2021

Understanding the Social Determinants of Mental Health of Undergraduate Students in Bangladesh: Interview Study

JMIR Formative Research

Ananya Bhattacharjee, SM Taiabul Haque, Md Abdul Hady, **SM Raihanul Alam**, Mashfiqui Rabbi, Muhammad Ashad Kabir, Syed Ishtiaque Ahmed

2021/11/2

'Shada Baksho': a hardware device to explore the fears of using mobile phones among the rural women of Bangladesh

ICTD Conference

Sharifa Sultana, Shaid Hasan, Khandaker Reaz Mahmud, **S M Raihanul Alam**, Syed Ishtiaque Ahmed

2019

ADDITIONAL COURSES AND SPECIALIZATION _

Machine Learning Foundations: A Case Study Approach

Coursera May 2020

Neural Networks and Deep Learning

May 2020

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

Coursera

CREDENTIAL ID: Y2D5YD2B899C

CREDENTIAL ID: 39TXBAL3CMPV

CREDENTIAL ID: RYNBBQB9TPCG

July 2020

Structuring Machine Learning Projects

Coursera

CREDENTIAL ID: DWVPZ8M5DFUJ

September 2020

Convolutional Neural Networks

Coursera

CREDENTIAL ID: XJXXRJA8Z4CL

October 2020