H M MOHAIMANUL ISLAM

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EDUCATION

TEXAS A&M UNIVERSITY, KINGSVILLE
M.Sc in Computer Science
Dec 2022 | Kingsville, Texas
GPA: 3.45 / 4.0

AMERICAN INTERNATIONAL UNIVERSITY BANGLADESH
B.Sc in Computer Science & Engineering
July 2018 | Dhaka, Bangladesh
GPA: 3.55 / 4.0

LINKS

Website:// **Mohaimanul Islam**
Facebook:// **MOHAIMANUL ISLAM**
Github:// **MOHAIMANUL ISLAM**
LinkedIn:// **MOHAIMANUL ISLAM**

COURSEWORK

GRADUATE
Machine Learning
Artificial Intelligence
Massive Parallel Computing
Data Mining
Real Time Systems
Analysis of Algorithms
Computer Comm Networks
Operating systems
(Research Assistant)

UNDERGRADUATE
Object Oriented Programming
Operating Systems
Artificial Intelligence & Expert Systems
Functional Programming
Computer Graphics
Unix Tools and Scripting

SKILLS

PROGRAMMING
Over 5000 lines:
Java • Shell • Python • Javascript
• Matlab • Rails • Node JS • React JS •
Mongo DB • SQL Server • LaTeX
Over 1000 lines:
C • C++ • CSS • PHP • Assembly • C#
Familiar:
AZURE • iOS • Android • MySQL • AWS

EXPERIENCE

ERA INFOTECH LTD | Software Engineer
August 2018 – December 2020 | Dhaka, Bangladesh

Developed banking and non-banking applications for ERA-InfoTech and their clients using different languages and frameworks
- Wrote Azure Function with Node JS.
- Used React JS for Front-End Development
- Used MongoDB & CosmosDB as NoSQL Database
- Deployed and Maintained both Back-End and Front-End to Azure Cloud

RESEARCH

CYBER-PHYSICAL POWER AND ENERGY SYSTEMS LABORATORY | Texas A&M University Kingsville | Graduate Research Assistant
August 2022 – December 2022 | Kingsville, Texas
Director Taesic Kim, Ph.D.
- Developed Modular Blockchain with distributed peers in Hyperledger Fabric.
- Designed a Ransomware detection method based on Quantum CNN using Gray-scale image for digital sub-stations.
- Security Module Development for Modular Blockchain

INDUSTRIAL TECHNOLOGY & MANAGEMENT LAB | Texas A&M University Kingsville | Graduate Research Assistant
August 2021 – July 2022 | Kingsville, Texas
Director Md. Monirul Islam, Ph.D.
- Developed machine learning model(LSTM) to analyze and predict residential load profile
- Preprocessed the data with different feature selection methods and augmented the data to grab important feature.
- Evaluate model using confusion matrix and mAP of the model

AWARDS

2020	Graduate Merit Scholarship (Graduate)
2018	Nominated for the Best Thesis (Undergraduate)
2011	Bangladesh National Mathematics Olympiad Finalist

PUBLICATIONS

[1] H. M. M. Islam, S. Ahmed, B. Ann, and T. Kim. Hyperledger fabric modular transactive energy blockchain testbed for distributed energy resources systems. *in Proc. 2023 IIEEE Energy Conversion Congress and Exposition, 2023,(Submitted).*

[2] H. M. M. Islam, N. Dobaria, and M. Islam. Non intrusive load monitoring and predicting using iot device and machine learning techniques. *in Proc. 2023 13th IEEE Global Humanitarian Technology Conference, 2023, (Accepted).*

[3] H. M. M. Islam and M. Khan. Detecting deepfakes using convolutional neural networks. *in Proc. 2023 FPGA '23: The 2023 ACM/SIGDA International Symposium on Field Programmable Gate Arrays, 2023, (Accepted).*

[4] A. Rahman, H. M. M. Islam, A. Jenkins, and T. Kim. Quantum machine learning for ransomware detection in power grid. *in Proc. 2023 IIEEE Energy Conversion Congress and Exposition, 2023,(Work In progress).*