Mosabbir Bhuiyan

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CAREER OBJECTIVE

To obtain a teaching position where I can utilize my administrative and institutional skills, interact with the students, give them theoretical and practical knowledge and also supervise them in their academic and research work.

WORK EXPERIENCE

Software Engineer (Intern) Dec 2020 – Mar 2021

- Mechanic Koi
  Lead a four-member team in developing flutter apps for locating a garage's location and scheduling an appointment.

EDUCATION

Chittagong University of Engineering & Technology
B.SC. In Electronics & Telecommunication Engineering 2017 – 2022
CGPA **3.55** out of 4.00

Mirpur Cantonment Public School & College
Higher Secondary Certificate 2014 – 2016
GPA **5.00** out of 5.00

Kishoreganj Govt. Boys' High School
Secondary School Certificate 2012 – 2014
GPA **5.00** out of 5.00

RESEARCH AND TEACHING INTEREST

- Image Processing
- Machine Learning
- Neural and Fuzzy
- Object Oriented Programming
- Web Programming
- Data Structure and Algorithm
- Electronics
- Analog and Digital Communication
- Computer Networking
- Satellite Communication
- Optical Fiber
- Wireless Communication
- Antenna and Microwave
- VLSI
- Signal and Systems

UNDERGRADUATE THESIS

- **An Ensemble Learning Approach to Detect Malaria from Microscopic Red Blood Cell Images.**

This was my undergrad research where I built a model to identify malaria disease with an accuracy of 97.92%. *(Submitted to Sensor International Journal, Status: Under review)*
Tools: Tensorflow, Python, Matplolib, CNN.

PUBLICATION

Bhuiyan, Mosabbir & Kabir, Md Ahasan. (2020). **Vehicle Speed Prediction based on Road Status using Machine Learning.** Advanced Science, Engineering and Medicine. 2. 1-9.

PROJECTS

1. **Retinal Fundus Images Detection and Classification Using ANN**
   ANN is applied to categorize two stages of the disease after detecting the fundus area in the retina.
   Tools: Image Processing, Feature Extraction, ANN, MATLAB.
2. **Exploring Machine Learning Algorithms and Neural Network to Solve Real-World Problems**
   Applied various regression and classification algorithms to solve real-world problems. Have done feature engineering on the dataset to find appropriate features.
   Tools: Google colab, Python.
3. **Build a Complete Gaming Website**
   Developed a gaming website where you can download, watch the trailer, and get updated news about the latest games. Signup and login system is also available there.
   Tools: HTML, CSS, PHP, Xampp, Sql.
4. **Design a Network Topology and Configure It in RIP Routing Protocol**
   A complete network topology has been developed with 5 routers, 5 switches, 5 hubs, and 35 end elements. A RIP routing protocol is used to configure the system.
   Tools: Cisco Packet Tracer.
5. **Develop a Four-Way Traffic Control System Using Microcontroller**
   Controlled a Four-way lane of road traffic using a microcontroller-based system.
   Tools: Microcontroller, MikroC Pro, LED.
6. **FM Radio Transmitter and Receiver**
   An FM radio module has been developed that can both transmit and receive radio waves.
   Tools: Potentiometer, Resistor, Capacitor, Inductor, Op-Amp.
7. **Build a Function Generator with Over Voltage Protection and a Delta Modulator**
   Develop a circuit that can generate different types of electrical signals like sinusoidal, triangular, or square waves in different frequencies.
   Tools: Wires, Potentiometer, Resistor, Capacitor.

SKILLS

Languages	: C, C++, Python, MATLAB, Dart.
Library	: Tensorflow, Keras, NumPy, Pandas, Matplotlib.
Artificial Intelligence	: Machine Learning, Deep Learning.
Tools	: PLC, Cadence, Cisco Packet Tracer, Wireshark, Git, Unity.
Hardware	: Microcontroller, Arduino.
IDE	: Google Colab, Jupyter Notebook.
Mobile & Web Development	: HTML, CSS, PHP, WordPress, Flutter.

ACCOMPLISHMENTS

1. Intro to Tensorflow for deep learning. (Udacity)
2. Game Development for Modern Platforms. (Coursera - Jul 2020)
3. Introduction to Game Development. (Coursera - May 2020)
4. A workshop was held on Digital Fabrication in Fab Lab, CUET. (December 2019)
5. Training course on Blockchain and Cryptocurrency under ICT Division and Bangladesh High Tech Park, CUET. (June 2019)

AWARDS

- Awarded with **Technical Scholarship** in all semesters.
- Received **Government Scholarship** in Secondary School Certificate.

INDUSTRIAL TOUR

- BNS Shaheed Moazzem naval academy. Kaptai, Rangamati.

EXTRA-CURRICULAR

1. Secretary (Creative), **CUET Career Club**, CUET.
2. Organized **CUET ETE'17** Fresher's Reception in 2018.
3. Worked as a volunteer in **'ROBI CAREER CARNIVAL'** which was held on 13th November 2017.
4. Champion in Annual Hall **Cricket Tournament** in 2019.

PERSONAL INFORMATION

Name	: Mosabbir Bhuiyan
Date of Birth	: 27th July 1998
Gender	: Male
Nationality	: Bangladeshi
Address	: 158, East Kazipara, Kafrul, Mirpur, Dhaka-1216
Strength	: Self-motivated, Creative, Discipline
Hobbies	: Reading, Playing, Travelling

REFERENCES

Dr. Md. Saiful Islam
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DECLARATION

I hereby declare that the details mentioned above are correct to the best of my knowledge and belief.

Mosabbir Bhuiyan