FAHIM FOYSAL APURBA

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CAREER OBJECTIVE & DESCRIPTION

Aspiring to be a proficient **Software Developer** and **Data Analyst**. I have experience in front-end development with **JavaScript**, back-end with **Laravel, Django, & SQL**. Significantly, **expertise in** data visualization, analysis, and data-driven decision making. Currently, working with **manual SQA**.

EDUCATION

Bachelor of Sciences | *Computer Science and Engineering*	**Apr. 2019 – Jul. 2024**
North South University | *Dhaka, Bangladesh*	CGPA: 3.11/4.00
Higher Secondary Certificate Examination	**July 2018**
Ideal College | *Dhaka, Bangladesh*	GPA: 4.17/5.00
Secondary School Certificate Examination	**May 2016**
Anjuman Adarsha Govt. High School | *Netrakona, Bangladesh*	GPA: 5.00/5.00
Junior School Certificate Examination	**Dec. 2013**
Anjuman Adarsha Govt. High School | *Netrakona, Bangladesh*	GPA: 5.00/5.00

RELEVANT COURSES

Academic Courses

- **C, C++, Java:** Concepts of Programming Language, Programming Language I,II, Concepts of Programming Language, Data Structure & Algorithm,

- **Mathematics:** Discrete Mathematics, Engineering Mathematics, Calculus & Analytic Geometry-(I,II,III,IV),

- **DevOps, SQA, SDLC:** Software Engineering, Database Management System (SQL),

- **Data Science:** Probability & Statistics, Artificial Intelligence, Machine Learning, Pattern Recognition,

- **Capston Project:** Junior Design (6 months), Senior Design (I,II) (1 Year).

ACTIVITIES AND SKILLS

Extra Curricula Activities

- Former General Member at NSU IEEE Society
- Former General Member at NSU CEC club

Skills

- **Programming Language**: Python, JavaScript, PHP, Java, C++, C, SQL
- **Framework**: Laravel, Django, Flask, PyTorch, Tensorflow, Keras
- **Simulation and Design Tools**: Multisim, Logisim, Auto-CAD, Canva, draw.io
- **Document Creation and Illustration**: Microsoft word, Excel, Power Point, Latex
- **Other**: HTML, CSS, SQL, Git

RESEARCH INTEREST

- Data Science and Algorithms.

- Neural Network Models.

WORK EXPERIENCE

Research Assistant,
An Embedded System for Real-Time Atrial Fibrillation Diagnosis Using a Multimodal Approach to ECG Data.
Supervision of: Dr. Riasat Khan
Associate Professor & Undergraduate Coordinator(EEE/ETE),
Dept. of ECE, North South University, Dhaka.

RESEARCH EXPERIENCE

- **Multimodal approach & Enhance knowledge distillation**

    - Multimodal refers to the different mode of data work together like our 5 different senses.
    - We had two form of ECG data - series and image form of data. Eventually, two different models are employed for two different form, and interfaced them later.
    - We explored an intermediate TA layer to enhance knowledge distillation.

MAJOR UNDERGRADUATE PROJECTS

- **An Embedded System for Real-Time Atrial Fibrillation Diagnosis** using a multimodal approach to ECG data, under the supervision of Dr. Riasat Khan, Associate Professor & Undergraduate Coordinator(EEE/ETE), Dept. of ECE, North South University, Dhaka.

- **Classifying Toxic-Banglish Comments** from social media Posts by using Natural Language Processing, under the supervision of Intisar Tahmid Naheen, Senior Lecturer, Dept. of ECE, North South University, Dhaka.

- **Network Intrusion Category Detector** using UNSW-NB15 dataset, under the supervision of Rifat Ahmed Hassan, Senior Lecturer, Dept. of ECE, North South University, Dhaka.

- **Designing A Teacher's Grading Tool (TGT) software,** using raw PHP under the supervision of Rifat Ahmed Hassan, Senior Lecturer, Dept. of ECE, North South University, Dhaka.

- **Designing EMart, A Web-based Marketplace** dedicated to e-Commerce using Laravel and SQL, under the supervision of Intisar Tahmid Naheen, Senior Lecturer, Dept. of ECE, North South University, Dhaka.

JOURNALS & PUBLICATIONS

Akter, M.; Islam, N.; Ahad, A.; Chowdhury, M.A.; Apurba, F.F.; Khan, R. An Embedded System for Real-Time Atrial Fibrillation Diagnosis Using a Multimodal Approach to ECG Data. Eng 2024, 1, 1–25.,

Paper Source: `https://github.com/FahimFoysalApurba/Journal/blob/main/FFA-j.pdf`.

REFERENCES

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