S. MAHMUDUL HASAN

10/10 Iqbal Road, Mohammadpur, Dhaka, Bangladesh.

(+880)1760822760 ⋄ mahmudulhasan947@gmail.com ⋄ 1305043.sh@ugrad.cse.buet.ac.bd ⋄ numan947.github.io

EDUCATION

Bangladesh University of Engineering and Technology, Dhaka   *2014 - 2018*
B.Sc Engg. in Computer Science and Engineering (CSE)
CGPA: 3.65 / 4.00

STANDARDIZED TEST SCORES

	Qunatitative	Verbal	Analytical Writing	Date Taken
GRE: 328 / 340	167	161	4.5	Aug 28, 2019
	90th Percentile	88th Percentile	81st Percentile	

	Reading	Listening	Speaking	Writing	Date Taken
TOEFL: 113 / 120	30	29	24	30	Sep 21, 2019

RESEARCH INTEREST

My research interests lie in the domain of security, machine learning and natural language processing.

RESEARCH EXPERIENCE

Undergraduate Thesis
Data Mining

Accumulated data on different diseases' natures and their outbreaks, and different socioeconomic conditions of different countries around the world. Analyzed the data using different statistical and machine learning techniques to infer the potential socioeconomic factors that can contribute to disease outbreaks.
Supervisor: A. B. M. Alim Al Islam

WORK EXPERIENCE

Eastern University, Dhaka   February 2020 - Current
Lecturer, Department of CSE

Instructed courses on Structured Programming Language, Algorithms, Discrete Mathematics and their corresponding sessionals.

Canadian University of Bangladesh, Dhaka   February 2019 - September 2019
Lecturer, Department of CSE

Instructed courses (including labs) on Structured Programming Language, Compilers, Computer Networks and Mobile Application Development.

REVE Systems, Dhaka   April 2018 - July 2018
Intern

Worked on development of Bangla Text To Speech (TTS) and Speech To Text (STT) systems. Developed a system for collecting and annotating Bangla speech data.

TECHNICAL STRENGTHS

Programming Languages	C/C++ , Python , Java, JavaScript, Assembly
Markup Languages	HTML, XML, LaTeX, MarkDown
Database	MongoDB, MySQL, Sqlite, Oracle
Machine Learning	Keras, PyTorch, Scikit-Learn, Pandas, NumPy
Software & Tools	Git, Android SDK, Ionic, JavaFX, Java Servlet, Tkinter, Flask, Django

SELECTED PROJECTS

Image Data Collection and Labeling System

Image data collection and labeling system built using Ionic framework and Python Flask.

Bangla Handwritten Digit Recognition

Implemented a simple CNN based classifier for Bangla handwritten digit recognition which achieved 89% accuracy on data collected through Image Data Collection and Labeling System.

Smile Detection

Implemented CNN based classifier (93% test accuracy) for detecting smile and implemented code for using the trained classifier in realtime.

Facial Expression Recognition

This was a course project done using Keras library. We achieved about 60% accuracy in the model we implemented using the dataset available at Kaggle.

BrackFire

Fire service calling and tracking application built using Android SDK, GoogleMaps API, Firebase API and Firebase Cloud Messaging(FCM) API.

FileShare

A two part system, for file sharing between Windows, Android and Linux using a common Wifi network, built using JavaFX and Android SDK.

BizziBay

A digital shopping system which can be used to buy and sell products online. Front end is done in Android SDK as well as in simple HTML/CSS/JS while back end runs on Python Django framework.

MediaPlayer

This a simple mp3 and mp4 player which supports creation and saving of playlists. This was done in JavaFX.

Simple Gaming Database

This is a generic database for two player games like Chess, Go, Checkers, etc. It supports creation of multiple players and arrangement of tournaments. It has a forum which can be used as a communication media for the players. Oracle Database and Java Servlet API were used to build it.

SpaceInvaders

A simple 2D game built using iGraphics library. It was done as a requirement in CSE102: Structured Programming Language Sessional course.

AWARDS AND SCHOLARSHIPS

Dean's List	Level 3, Term 2 (Third year, Second semester)
University Stipend	Level 1, Term 1 (First year, First semester)
Board General Scholarship	HSC (2013)

EXTRA CURRICULAR ACTIVITIES

Competitive Programmar

Used to solve programming problems and take part in Competitive Programming Contests

UVA Profile Link: https://uhunt.onlinejudge.org/id/404339

REFERENCES

Available on request