Kazi Md. Al-Wakil

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EDUCATION

BRAC University   Dhaka, Bangladesh
Bachelor of Science in Computer Science   *May 2019 – Sep. 2023*

CGPA: 3.98/4.00
Thesis: Recommendation System for Mood Stabilization using Content Recommendation

St. Joseph Higher Secondary School & College   Dhaka, Bangladesh
Higher Secondary Certificate (HSC)   *July 2016 – May 2018*

GPA: 4.67/5.00

Government Laboratory High School   Dhaka, Bangladesh
Secondary School Certificate (SSC)   *Jan. 2006 – Apr. 2016*

GPA: 5.00/5.00

EXPERIENCE

Undergraduate Teaching Assistant   June 2022 – Present
BRAC University   *Dhaka, Bangladesh*

- Assigned Courses:
  * CSE110: Programming Language I | CSE111: Programming Language II

Content Writer   2020 – 2021
Course Platoon   *Dhaka, Bangladesh*

- Provided educational contents for all kinds of student
- Contributed in writing qualitative blog posts
- Researched on trending topics

Content Writer   2017 – 2019
Light Of Hope   *Dhaka, Bangladesh*

- Explored methods to write a content in a interesting way
- Developed critial thinking ability
- Contributed in writing qualitative contents

PROJECTS

Building a Computer Network | *Cisco Packet Tracer*   Feb. 2023 – April. 2023

- Developed a full computer network from scratch
- Assigned IP addresses by both Manually and with the help of DHCP server
- Created primary, secondary and default routes
- Created web server and email servers
- Each node was connected with each other either directly or indirectly

Wildfire Prediction Using Machine Learning | *Pandas, Matplotlib, Scikit-learn*   Feb. 2023 – April 2022

- Developed a system to predict the confidence of the forest
- Used KNN, Decision Tree, Random Forest, SVM, Linear Regression, ADAboost
- Evaluated the models using Root Mean Square Error

Rent at BRACU | *PHP Laravel Framework, MySQL Databse, HTML, CSS, JavaScript*   Sept. 2022 – Dec. 2022

- Developed a full-stack web application where students, faculties, staffs of BRAC University can Rent anything
- PHP Laravel framework used for the whole project and HTML, CSS as the frontend
- Used Test-First-Development approach

Designing a 4-bit ALU to perform 4 different operations | *Verilog*   Sept. 2022 – Dec. 2022
- Developed a system which can perform ADD, SUB, XNOR, NAND operations
- The system is constructed using Verilog

Diabetic Detection Using Machine Learning approach | *NumPy, Scikit-learn, Pandas* May 2022 – Sept. 2022
- Developed a system to detect Diabetics among female patients
- Used Machine Learning Approach
- Used Decision Tree, Random Forest, K-Nearest Neighbor

Arduino based High Security Car Parking System | *C++, Hardware Based*   May 2022 – Sept. 2022
- Developed High security Car Parking System
- Used Fingerprint as the main factor of Security
- Implemented hardware based System as well as theoretical

Football Club Management System | *PHP, MySQL Database, HTML, CSS, JavaScript*   Oct. 2021 – Jan. 2022
- Developed a full-stack web application with PHP along with MySQL and HTML, CSS as the frontend
- Implemented a system where data is user-driven

Research Works

EEG Based Mood Detection and Stabilization Using Content Recommendation   Sept. 2022 – Present
- Developing a content recommendation system after detecting a person's mood through EEG-Signal

Technical Skills

Languages: Java, Python, Verilog, SQL, HTML/CSS, LaTeX, Markdown, PHP, Bash
Frameworks & Libraries: Laravel, Pandas, NumPy, Matplotlib, Seaborn, Tensorflow, Scikit-learn
Developer Tools: Overleaf, Git, VS Code, PyCharm, NetBeans, Notepad++, Quartus, Microwind, Google Colab, MS Office, Jupyter Notebook, Google Suite
Hardware Interfacing: Arduino Uno, Raspberry Pi 4
Other Software: Adobe Photoshop, Adobe Illustrator, Wondershare Filmora, Audacity, OBS

Extracurricular activities

Head of Photography   2017 – 2018
Josephite Eco Earth Club   *Dhaka, Bangladesh*

Volunteer   2016 – 2017
Scars   *Dhaka, Bangladesh*

Executive Committee Member   2014 – 2016
English Club of the Laboratorians   *Dhaka, Bangladesh*

Achievements

Merit Scholarship Based on BRACU Academic Results   Jan 2021 – Sep 2023
BRAC University   *Dhaka, Bangladesh*

- 75% waiver on Tuition Fees on every semester

Vice Chancellor's List and Dean's List Award   Aug 2023
BRAC University   *Dhaka, Bangladesh*

- Got placed on VC's List for 8 semesters as recognition of achieving a GPA of 3.90-4.00 on those particular semesters
- Got placed on Dean's List for 1 semester as recognition of achieving a GPA of 3.70-3.89 on that particular semester