RAFIAD SADAT SHAHIR

GRADUATE OF BRAC UNIVERSITY

- rafiadsadat.netlify.app
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- Dhaka, Bangladesh

RESEARCH INTEREST

- Neural Network Architectures
- Spiking Neural Networks
- Blockchain
- Central Bank Digital Currency
- Self-Sovereign Identity

SKILLS

- Full Stack Web Development
- Web Security
- Machine Learning
- Arduino Programming
- PCB Design
- Computer Graphics
- Blockchain & Cryptography

CO-CURRICULAR ACTIVITIES

EXECUTIVE, EVENT MANAGEMENT
Robotics Club of BRACU

AUG 2020 - JUN 2022

- Gained some management skills

MEMBER, SENSOR & CIRCUIT TEAM
BRACU Duburi

JUN 2021 - MAR 2022

- Learned designing PCBs

MEMBER, ELECTRONICS TEAM
BRACU Mangol Tori

DEC 2021 - MAR 2022

- Designed module for BTS7960 in EasyEDA

EDUCATION

BSC IN CSE (2020-2023)
BRAC University

Department: CSE

CGPA: 3.93

HIGHER SECONDARY (2019)
Barishal Cadet College

Group: Science

GPA: 5.00

SECONDARY SCHOOL (2017)
Barishal Cadet College

Group: Science

GPA: 5.00

EXPERIENCE

UNDERGRADUATE TEACHER ASSISTANT
CSE Department, BRAC University

JUN 2022 - DEC 2023

- Helped students with their "CSE221: Algorithms" course

LANGUAGES

- C
- C++
- Python
- Java
- JavaScript
- Solidity

TOOLS

- MERN Stack
- Pandas
- MySQL
- Numpy
- JWT
- Tensorflow
- OpenGL
- Git
- Latex
- VSCode

INTERESTS

- Algorithms
- Neural Networks
- Blockchain
- Theory of Computation
- Computer Networks
- Computer Security
- Operating Systems
- Robotics

REFERENCES

Md. Golam Rabiul Alam, PhD

Professor, BRAC University

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Md Sadek Ferdous, PhD

Associate Professor, BRAC University

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sadek.ferdous@bracu.ac.bd

PROJECTS

WEB DEVELOPMENT

SKILL HUB: A WEB APPLICATION

MERN Stack, JWT

Github : github.com/DeBug51/skill_hub

PORTFOLIO WEBSITE

ReactJs, React-Router-Dom

Github : github.com/DarkerNemesis14/portfolio_website

ARTIFICIAL INTELLIGENCE

NEURAL NETWORK REPOSITORY

Numpy

Github: github.com/DarkerNemesis14/NeuralNetworkAlgorithms

ROBOTICS

OBJECT AVOIDING FIRE FIGHTER ROBOT

Arduino, DC Motors, Pump, Sonar Sensor, IR Sensor

Github : github.com/DeBug51/Object_Avoiding_Fire_Fighter_Robot

SONAR RADAR

Arduino, Servo, Sonar Sensor

Github : github.com/DarkerNemesis14/SonarRadar

OTHERS

BOWLING GAME

OpenGL, Pygame

Github : github.com/DarkerNemesis14/BowlingGame_OpenGL

ALGORITHMS REPOSITORY

Python, C++

Github : github.com/DarkerNemesis14/Algorithms

RESEARCH

RESEARCH WORKS

CONNECTED HIDDEN NEURONS (CHNNET): AN ARTIFICIAL NEURAL NETWORK FOR RAPID CONVERGENCE

Rafiad Sadat Shahir, Zayed Humayun, Mashrufa Akter Tamim, Shouri Saha, Md. Golam Rabiul Alam

URL: https://arxiv.org/abs/2305.10468

PROCEEDING WORKS

- Cental Bank Digital Currency
- Spiking Neural Networks