

# S.M. Faiaz Mursalin

126/C, New Eskaton, Dhaka, Bangladesh • +8801303838929

[mursalinfaiaz@gmail.com](mailto:mursalinfaiaz@gmail.com) | [linkedin.com/in/s-m-faiaz-mursalin-9921b21ab](https://www.linkedin.com/in/s-m-faiaz-mursalin-9921b21ab) | [github.com/FaiazMursalin](https://github.com/FaiazMursalin)

## RESEARCH INTEREST

Artificial Intelligence, Machine Learning, Image Processing, Meta Learning, Predictive Learning, High-Performance Computing and Human Computer Interaction

## EDUCATION

**BRAC University** (Dhaka, Bangladesh) January 2018 – January 2022  
Bachelor of Science in Computer Science and Engineering  
**CGPA:** 3.88/4.00

**Notre Dame College** (Dhaka, Bangladesh) July 2015 – April 2017  
Higher Secondary Certificate, Science Background  
**GPA:** 5.0/5.0

## WORK EXPERIENCE

**Software Engineer** April 2022 - Present  
BJIT Limited (Dhaka, Bangladesh)

- **SourceNext PockeTalk Admin console**
  - Led the team in implementing the back-end admin panel for all the PocketTalk device
  - Connected the admin panel with the SourceNext Back office
  - Technologies used are Spring Boot, Soracom, React.Js
- **Akaoni AI Analyzer**
  - Assisting the team in developing the backend of the client project using java spring boot and python
  - Developing API along with the team in connecting the backend and frontend of clients existing project
  - Technologies used Spring Boot, Python, Tweaking Unicorn WSGI server to run multithreading in local system

## TEACHING EXPERIENCE

**Teaching Assistant** Spring 2021, Summer 2021, Fall 2021  
Computer Science and Engineering at BRAC University  
Course: Data Structure (CSE220)

- Coordinated the students with their lab and theory assignments.
- Assisted the students with their codes.
- Graded scripts of lab and theory assignment submissions.

## PUBLICATIONS

-Hamza Ahmed Shad, Quazi Ashkiur Rahman, Nashita Binte Asad, Atif Zawad Bakshi, **S.M. Faiaz Mursalin**, Md. Tanzim Reza, Mohammad Zaid Parvez. **Exploring Alzheimer's Disease Prediction with XAI in various Neural Network Models.** TENCON 2021 - 2021 IEEE Region 10 Conference (TENCON)

-Meherin Hossain Nushra, Quazi Ashikur Rahman, **S.M. Faiaz Mursalin**, Nashita Binte Asad, Miah Mohammad Asif Sayeed, Md. Motaharul Islam. **Smart Car Parking with the assistance of Line Following Robot.** 2019 International Conference on Sustainable Technologies for Industry 4.0 (STI)

## AWARDS AND ACHIEVEMENTS

-Recipient of **Merit Based Scholarship from BRAC University** January 2019 – December 2021

-Finalist at **Bangladesh CanSat Competition** organized by BRAC January 2019

-Quarter Finalist at **Mecceeleration** in the segment of Robo Soccer September 2019

-**Intra University Tech Carnival** in the segment of Soccer Mania September 2019

## PROJECTS

**Training Management System**

- Developed using Spring Boot and React hooks, Applied JWT and MockMvc for testing

**Student Repository System**

- Developed using Spring Boot and React, added JWT authentication and testing done using MockMvc

**ERP**

- Developed using Spring Boot and Thymeleaf, used Aspect oriented programming and Annotation based exception Handling

**Inventory Management System**

- Developed using HTML, CSS, PHP and MySQL for Database

**Pizza Ordering Website**

- Implemented using Laravel, a PHP framework and used MySQL as backend

**Line Following Robot**

- Implemented the PID controller code in python
- Developed the robot from scratch, the surrounding objects and the track in WeBots

**Smart and Secure Home**

- This is a computer interfacing project where the circuit was made in proteus and the code was done in Arduino IDE
- Developed the GUI in LabView to get real time data from proteus

**Face recognition-based attendance system**

- Face recognition-based attendance system which will detect face of the registered people in a company and give attendance automatically in an excel sheet.

**Object detection**

- Used OpenCV to detect circular and rectangle shape in live feed from webcam.

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**SERVICES AND OUTREACH****BRAC University**

January 2019- December 2020

Robotics Club, BRAC University.

Worked with various undergraduate robotics team in mentoring and supporting their personal robotics project to teaching them the basics of Robotics.

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**SKILLS AND EXPERTISE**

Java (Preferred), Python, SQL, React, CSS, Thymeleaf, OpenCv, Tensorflow, Pytorch, Arduino, WeBots, Proteus, LabView etc.