

Al Hasib Arafat

3rd Year Undergraduate Student, B.Sc. in **Software Engineering**, Daffodil International University, Birulia, Savar, Dhaka, Bangladesh

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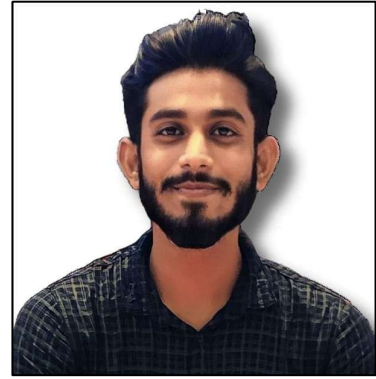
GitHub: github.com/Hasib-Arafat |

LinkedIn: linkedin.com/in/hasibarafat/

Date of Birth: 02 February 2004

Nationality: Bangladeshi

Gender: Male



CAREER OBJECTIVE

Passionate undergraduate student in Software Engineering, with a deep interest in **Robotics(ROS)**, **Computer Vision**, **IoT**, **ML**, **AI** and **Drone and Defence Technology**. Eager to innovate and contribute to advanced research and technical projects while honing leadership and technical skills to drive impactful solutions in emerging technology fields of Bangladesh.

Always a dedicated learner.

RESEARCH & DEVELOPMENT INTERESTS

- Remote Sensing Application in Agriculture& Disaster Monitoring
 - Satellite Image Processing & Feature Extraction Using Computer Vision
 - AI-integrated Robotics and Unmanned Aerial System(UAS) for Terrain Mapping
 - IoT and Embedded System for Environmental Sensing and Automation
 - Slam/Digital Twin-based Navigation and Mapping for Ground and Aerial Robotics
 - ROS-based Robotics Platforms for Smart Exploration and Monitoring
 - Real-time Video Analytic for Climate and Crop Observations
 - Agentic AI and Personal AI for Detection Support
 - Human-AI Interaction in Scientific Research Action
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ACADEMIC BACKGROUND

Bachelor of Science (BSc) in Software Engineering

Daffodil International University, Bangladesh

Session: Fall 2023 – Present (Expected Graduation: 2027)

Year: 3rd Year

Current CGPA: 3.4 on a scale of 4.00

Higher Secondary Certificate (HSC)

Dhaka City College, Dhaka (DCC)

Session: 2019–2020

Group: Science | Board: Dhaka

GPA: 5.00 on a scale of 5

Year of Passing: 2021

Secondary School Certificate (SSC)

Kushtia Zilla School, Kushtia,

Session: 2017-2018

Group: Science | Board: Jashore

GPA: 5.00 on a scale of 5

Year of Passing: 2019

AWARDS & RECOGNITION

National Champion and Global Nominee – NASA Space Apps Challenge 2024

Recognized for exceptional teamwork and innovation in developing solutions to global space and earth science challenges. [Click Link](#)

National Champion – National Science and Technology Week-2023 (4 day long exhibition competition)

Participant – BUET Robo Carnival-2024

BUET Automobile Carnival-2024

DUET TechFest-2024

IUT Mecceleration-2020

PROJECTS & EXPERIMENTAL WORK

- Car Parking Detection and Management System
 - BD Currency Detection Device for Blind Community
 - Drone-Based Mapping System
 - Bomb Disposal Robot (range of 2 km)
 - Fire Fighting Rescue Robot (range of 4 km)
 - Blood Donation Management System (Dart/Flutter Based)
 - Drone Assembly Project (Manual Flight Testing)
 - Lost & Found Database Project (XAMPP + SQL)
 - ROS1 Noetic/ROS2 Humble Turtlesim Projects (Publisher, Subscriber, Services, Actions)
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LEADERSHIP & ORGANIZATIONAL ROLES

- Organizing Secretary, DIU Robotics Club
- Team Leader, Team Phoenix, NASA Space Apps Challenge-2024
- Sponser Team, TEDx DaffodilU
- Executive Member, Data Science Club, DIU
- Executive Member, Software Engineering Club, DIU
- Executive Member, BASIS Student Forum – DIU Chapter

TECHNICAL SKILLS

Languages: Python, C/C++, Java, Dart

Robotics & Embedded: ROS1, ROS2 (Humble), Gazebo, Fusion360(URDF), Raspberry Pi, Pixhawk, ESP32

Computer Vision: OpenCV, YOLO (Object Detection)

Database: MySQL, SQLite, Google Sheets API

App Development: Flutter (Dart), JavaFX (GUI apps)

Tools: Git, Google Colab, VS Code, Anaconda (Spyder), XAMPP

Others: UML, OOP, SDLC, Basic HTML

DIGITAL & COMPUTATIONAL SKILLS

Operating Systems: Windows, Linux (Ubuntu)

Robotics Tools: ROS1 Noetic, ROS2 Humble, Gazebo, RViz, Fusion360, TinkerCad

Data Visualization: Google Sheets, Excel

AI Tools: Local LLMs (LLaMA3), Basic LangChain IDEs:

VS Code, IntelliJ, Anaconda (Spyder), Arduino IDE

TRAINING & WORKSHOPS

- ROS1 Navigation & SLAM Beginner Workshop, SUST Autodrive
 - OpenCV Hands-on Workshop, Self-directed
 - Online Trainings – LangChain, Agentic AI, Object Tracking(OpenCV)
- Machine Learning
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LANGUAGE SKILL

- **Mother Language:** Bangali
 - **Secound Language:** English
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EXTRA-CURRICULAR ACTIVITIES

- Robotics Club Volunteer, Trainer, and Organizer
- Stage Performance, Stage Managing and Public Event Leading
- Data Science Event(AI in Education) Organizer
- Creating Tech Community for Collaboration Work
- Humanitarian Volunteering – Tech help, documentation
- Fund raising for humanitarian cause in Bangladesh-2024

ACADEMIC REFERENCES

1. Dr. Imran Mahmud

Professor & Head

Department of Software Engineering,
Daffodil International University

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2. Md. Shohel Arman

Assistant Professor,

Department of Software Engineering,
Daffodil International University, Birulia, Savar, Dhaka

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Phone: +8801673383289

3. Md. Hafizul Imran

Lecturer (Senior Scale),

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Daffodil International University, Birulia, Savar, Dhaka

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Phone: +8801740064708

DECLARATION

I, Al Hasib Arafat, hereby declare that the above-mentioned information is true and correct to the best of my knowledge and belief. I understand that any false information may lead to disqualification.