

# Md. Rafiul Islam

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LinkedIn | GitHub

## Summary

Passionate B.Sc. student in IoT & Robotics Engineering specializing in Hardware-Software integration, AI, Machine Learning and Intelligent Automation. Experienced in Arduino-based robotics, AI Voice Agents, and Conversational AI. Proven track record in leadership roles and hands-on project development.

## Experience

<b>Intern - Ignite Internship Program (Batch-04)</b> <i>Bangladesh Youth Skills Development Organisation (BYSDO)</i>	Mar 2026 – May 2026 <i>Virtual</i>
– Selected for 3-month intensive internship program to enhance skills and contribute to youth development projects	
<b>Content Executive</b> <i>Daricomma</i>	Jan 2026 – Present <i>Remote</i>
– Creating and managing content for online educational platforms	
<b>Photographer</b> <i>UFTB Robotics Club</i>	Sep 2025 – Present <i>On-site</i>
– Documenting robotics events, captured third place in IoT & Robotics Contest	
<b>Social Media Manager</b> <i>UFTB AI Community</i>	Dec 2025 – Present <i>Full-time</i>
<b>Campus Ambassador</b> <i>Requin BD</i>	Jan 2026 – Present <i>Remote</i>
<b>Campus Ambassador</b> <i>Robo Tech Valley</i>	Oct 2025 – Present <i>Remote</i>
<b>Event Ambassador</b> <i>Data Solution-360</i>	Oct 2025 – Present <i>Remote</i>
<b>Cohort 5 - Aspire Leaders Program</b> <i>Aspire Institute</i>	Sep 2025 – Dec 2025 <i>Remote</i>
<b>ILC University Representative</b> <i>International Leadership Competition</i>	Jul 2025 – Jan 2026 <i>Remote</i>

## Projects

- System-Argus-AI: Server Failure Prediction** | *Python, ML, AI*
  - Developed AI system for predicting server failures with real-time monitoring and predictive analytics dashboard
- Weather Agent Automation** | *n8n, AI Agents*
  - Built intelligent weather agent with automated data collection, processing, and smart notification system
- 3D Quantum Neural Network Visualization** | *Three.js, GLSL, JavaScript*
  - Interactive 3D visualization with real-time energy pulses, custom shaders, and dynamic network morphing
- 3D Portfolio Website** | *HTML, CSS, JavaScript, Three.js*
  - Complete 3D portfolio with advanced visual effects, 3D tilt, hover animations, and parallax scrolling
- Habit Tracker** | *Java (JavaFX), API, CSS*
  - Desktop application with data visualization and progress analytics dashboard
- Local Bus Route Finder** | *DSA, Graph Theory*
  - Implemented graph traversal algorithms for optimal bus route finding in urban networks
- Edge Detection Robot (OopsStopper v1.0)** | *Arduino, C++*
  - Table safety bot with IR sensors and real-time edge detection algorithm

## Technical Skills

**Hardware & Robotics:** LFR, Firefighting Robot, Edge Detection Bots, Sensor Integration (IR, Flame, Ultrasonic), IoT, PCB Design  
**Programming:** C/C++, Java, JavaScript, Python (NumPy, Pandas), HTML/CSS  
**AI & ML:** Machine Learning, Deep Learning, AI Voice Agents, Conversational AI, Chatbot Development, n8n Automation  
**Data Science:** Data Analytics, Visualization, Statistical Analysis, Power BI  
**Tools:** IBM Watson, Google Cloud AI, Arduino IDE, Git/GitHub, AutoCAD, IntelliJ, cisco pocket tracer, Adobe Photoshop, CapCut, n8n

## Soft Skills

Leadership | Problem Solving | Communication | Team Collaboration | Event Management | Photography | Video Editing | Research | Public Speaking

## Education

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**University of Frontier Technology, Bangladesh**

*B.Sc in IoT & Robotics Engineering*

Nov 2024 – Nov 2028

*Dhaka, Bangladesh*

**Chuadanga Government College**

*Higher Secondary Certificate*

Mar 2022 – Aug 2023

*Chuadanga, Bangladesh*

**Alamdanga Government High School**

*Secondary School Certificate*

Feb 2016 – Oct 2021

*Alamdanga, Bangladesh*

## Certifications & Achievements

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Master AI Voice Agents – *Udemy*

Build Your Own Chatbot – *IBM Watson*

Innovating with Google Cloud AI – *Simplilearn*

Introduction to Internet of things – *Cisco networking academy*

Certified Cybersecurity Educator (CCEP) – *Red Team Leaders*

Python for Data Science – *IBM*

IoT & Robotics Contest Third Place – *UFTB Robotics club*

3D Mechanical Design & Modeling – *UFTB seminar and workshops*

Excel Mastery – *GP Academy*

Introduction to Data Science – *Cisco networking academy*

PCB Designing Workshop – *IEEE RAS IUT*

Data Analysis (Excel & Power BI) – *Data Solution-360*

Prompt Engineering, AI & ML – *GP Academy*

AI Automation – *Ostad*

International leadership competition(Elevation round) – *Youth skill development institute*

Research Training – *BARTC*

Essay Competition Third Place – *Islamic Foundation*