



CONTACT

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[Video Resume](#)

PROFILE SNAPSHOT

Role: Software Engineer
Focus: AI • Backend • Systems
Education: B.Sc in CSE
2nd Year • 38+ Awards • 8+ Projects

TECHNICAL SKILLS

Programming Languages

C, C++, Python, Java

AI / Backend Stack

Django, FastAPI, React, PostgreSQL,
Redis, Celery, LangChain, LangGraph,
RAG pipelines, LLM apps, AI agents

Core CS

Data Structures, Algorithms, OOP,
Competitive Programming

Robotics & IoT

Arduino, Embedded Systems,
Ultrasonic/Sonar, Accelerometer, IoT

Tools

Git, GitHub, VS Code, NetBeans,
Code::Blocks

General Skills

Management, Leadership, Event
Organising, Critical Thinking, Creativity

CODING PROFILES

[Codeforces – Sabbir2005](#)
[LeetCode – Sabbir2005](#)
[Beecrowd – 1181964](#)

LANGUAGES

English
Bangla

SABBIR HOSEN JOY

CSE Undergraduate • Software Engineer / AI Enthusiast

PROFILE

Computer Science & Engineering undergraduate at Daffodil International University, passionate about turning complex ideas into reliable, intelligent software. Experienced across AI-powered applications, intelligent automation, scalable backend architecture, microservices, and full-stack platforms, alongside a strong foundation in data structures, algorithms, and embedded systems built through robotics and IoT projects.

EDUCATION

B.Sc. in Computer Science and Engineering <i>Daffodil International University</i>	CGPA 3.69 / 4.00
Higher Secondary School Certificate <i>Dhaka College</i>	GPA 5.00 / 5.00
Secondary School Certificate <i>Govt. Kotalipara Union Institution</i>	GPA 5.00 / 5.00

FEATURED PROJECTS

Street Bot — Intelligent Vehicle Safety & Collision Prevention System

Vehicle-safety robot developed independently before university. Detects distance to objects ahead and responds in staged zones: warning, escalating alarm, progressive deceleration, and automatic braking at critical range; includes accident detection with mobile notification to the vehicle owner.

- Honorable Mention — 3rd Bangladesh Robot Olympiad
- Participant — 23rd Bangladesh Robot Olympiad

Automatic Water Tank Safety Controller — Contactless IoT Pump System

Household water-pump controller using a waterproof ultrasonic sonar sensor mounted above the tank to measure water level without electrical contact with the water, improving on electrode-wire and floating-switch designs. Automates pump on/off and supports IoT-based remote monitoring.

UNIVERSITY PROJECTS

Campus Cable Planner (C)

Graph-based campus network cable planning system using MST, Prim's and Dijkstra's algorithms to minimize cable cost across campus locations.

Land Management System (C)

Menu-driven land records and tax management system built with linked list, stack, and queue data structures.

EARLY PROJECTS & EXPERIMENTS

Vehicle Accident Detection & SMS Alert System

Early embedded-systems prototype using an accelerometer-type sensor to detect abnormal vehicle tilt/orientation (e.g. overturning) and automatically send an SMS accident alert to a saved phone number.

Arduino Ultrasonic Distance Detection System

Ultrasonic/sonar sensor connected to an Arduino and laptop to detect objects, display real-time distance, and blink an indicator — an early hands-on introduction to sensors and Arduino programming.

Laser Light Security / Intrusion Indicator

A laser-and-LDR beam-break system that detects when an object or person interrupts the beam and triggers an alarm/warning — an early experiment in light detection and simple automation.

Making & Crafting Experiments

Early hands-on cardboard mechanical models (including an excavator) that sparked an interest in building, experimenting, and turning ideas into physical prototypes, before moving into electronics and robotics.

LEADERSHIP & ROLES

Senior Patrol Leader — Scout Team	Govt. Kotalipara Union Institution
President — Science Club	Govt. Kotalipara Union Institution
President — Debate Club	Govt. Kotalipara Union Institution
Member — Science Club	Dhaka College
Assistant Leader — M. A. Kaium Sub-Group, Rover Scout Group	Dhaka College
Campus Ambassador — GBC Science Fair	Dhaka College
Member — CPC Club	Daffodil International University

ACHIEVEMENTS & AWARDS

38+ awards across STEM, robotics, scouting, and public speaking. Top 20 most prestigious / national-level selected below — full list available on request.

- President's Scout Award — Bangladesh Scouts, 2019 (highest Scout honor)
- Honorable Mention Award — 3rd Bangladesh Robot Olympiad, 2020
- Best Talent of the Year (Math & Computer) — Creative Talent Exploration, Dhaka Division, 2018
- National Level Participant (Math & Computer) — Creative Talent Exploration, 2018
- Best Student's Award — Dhanmondi Thana, National Education Week, 2021
- Best Debator Award — National Science Debate Festival & Build for Nation Debate, 2018 (District)
- Group Runners-Up — National Science Debate Festival, 2019 (District, BFF)
- Group Runners-Up — Build for Nation Debate Competition, 2018 (District)
- 1st Place, Science Project — 41st National Science & Technology Week, 2020
- 1st Place — 39th National Science & Technology Week, 2018 (District/Upazila)
- 1st Position, Science Project — National Children's Award Competition, 2018 (Upazila)
- 2nd Place, Science Project — National Children's Award Competition, 2018
- Best Rover Mate / Sahachor Award — Dhaka College Rover Scout Group
- Best Student of the Year — Dhaka College, 2021
- Best Student of the Year — Kotalipara Upazila, Creative Talent Exploration, 2019
- 1st Place / Best Talent (Math & Computer) — Creative Talent Exploration, 2018 (District)
- 1st Place / Best Talent (Science) — Creative Talent Exploration, 2018 (District)
- 1st Place in Extempore Speech — National Children's Award Competition, 2020 (Upazila)
- Winner, 1st Round — Take-off Programming Contest, Fall 2025
- Finalist & Winner, 1st Round — Unlock the Algorithm Contest, Summer 2026