

# Sakif Naieb Raiyan

Portfolio: [fanboyingeneral.github.io](https://fanboyingeneral.github.io)

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## Education

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**Bangladesh University of Engineering and Technology (BUET)**

*Bachelor of Science in Computer Science & Engineering*

Dhaka, Bangladesh

Expected Graduation: 2027

- **CGPA:** 3.99/4.00 (Current Level: Level 3, Term 2)
- **Awards:** Dean's List Award (2 times), University Merit Award (3 times).

**Notre Dame College**

*Higher Secondary Certificate (HSC)*

Dhaka, Bangladesh

2021–2022

- **GPA:** 5.00/5.00

- **Awards:** Academic Excellence Award (Ranked 3rd among 2,095 students), Perfect Attendance.

**St. Joseph Higher Secondary School**

*Secondary School Certificate (SSC)*

Dhaka, Bangladesh

2017–2018

- **GPA:** 5.00/5.00 | Nasr Mainuddin Scholarship (Full Coverage).

## Research Interests

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Large Language Models (LLMs), Multimodal Learning, Efficient Deep Learning, Transformer Architectures, Natural Language Processing (NLP).

## Publications & Research Experience

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**BanglaHateCorpus: A Large-Scale Bangla Benchmark for Hate Speech Classification**

2023 – 2024  
*Co-Principal Investigator | Funded by ICT Division, Govt. of Bangladesh (Grant: BDT 330,000)*

- Developed a comprehensive corpus of 50,000+ annotated Bangla samples for hate speech detection.
- Validated through inter-annotator agreement protocols achieving  $\kappa > 0.85$ .
- **Status:** Journal Article under review at *PLOS ONE*.

**Real-Time Rumor Verification System using AI-Powered Surveillance**

*Researcher*

2024

- Proposed a system combining social media text analysis with real-time CCTV footage to validate threats.
- Employed cross-modal fusion to detect and categorize rumors into 16 event types.
- **Recognition:** 2nd Runners Up at BUET CSE Fest 2024; Finalist Poster at 11th NSysS 2024.

## Selected Projects

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**Web Crawling Tool Development**

*Paid Internship Project*

*Node.js, React.js, MongoDB, Docker, Kubernetes*

Nov 2024

- Developed a scalable web crawling tool for efficient, on-demand data extraction from websites at scale.
- Utilized Selenium, Scrapy, and Crawl4ai for robust data scraping capabilities.

**Scramble: Automated Rubik's Cube Solver**

*Hardware & Mobile Application Project*

*ATMega32, Kotlin, Bluetooth (HC-05)*

July 2025

- Built a robot capable of solving a Rubik's Cube in under 20 moves.

- Developed a companion Android app for color detection and remote solver algorithm integration.

**On the Road**

*Web Application Project*

*Node.js, Express, React.js, PostgreSQL*

March 2024

- Created a comprehensive travel platform for route optimization, itinerary management, and accommodation.

**PoodFanda**

*Desktop Application Project*

*Java, Socket Programming, Java Swing*

- Engineered a multi-threaded restaurant management system with real-time bidirectional communication.

## Technical Skills

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- **Languages:** C/C++, Java, Python, JavaScript, Kotlin.
- **Web & Backend:** Node.js, Express, React.js, REST APIs.
- **Other Frameworks & Libraries:** pandas, numpy, tensorflow, matplotlib, seaborn, scikit-learn, crawl4ai.
- **Databases:** MongoDB, PostgreSQL, Supabase
- **Tools & DevOps:** Docker, Kubernetes, Git, Selenium, Scrapy, LaTeX.
- **Hardware:** Microcontrollers (ATMega32), Servo Motors, Sensors.

## Leadership & Achievements

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| • General Secretary, IEEE Computer Society BUET Student Branch Chapter         | March 2025 |
| • Finalist (Top 10), Hackathon, CSE FEST 2024, BUET.                           |            |
| • National Winner, Bangladesh Physics Olympiad (2018–2019).                    |            |
| • Prefect of Discipline, St. Joseph Higher Secondary School (2017–2018).       |            |
| • Joint Secretary, Josephites Language and Reading Club                        | 2017–2018  |
| • Joint Secretary, Josephites Wall Magazine Committee                          | 2017–2018  |
| • Board Scholarship, Government of Bangladesh (JSC, SSC, HSC).                 |            |
| • Champion, National Debate Festival (Prothom Alo & Josephites Debating Club). |            |