

Sakif Naieb Raiyan

Portfolio: fanboyingeneral.github.io

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Education

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

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

Publications & Research Experience

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

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

- **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). | |