

# Sakif Naieb Raiyan

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

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## Education

**Bangladesh University of Engineering and Technology (BUET)** Dhaka, Bangladesh  
*Bachelor of Science in Computer Science & Engineering* 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** Dhaka, Bangladesh  
*Higher Secondary Certificate (HSC)* 2021–2022

- **GPA: 5.00/5.00**
- **Awards:** Academic Excellence Award (Ranked 3rd among 2,095 students), Perfect Attendance.

**St. Joseph Higher Secondary School** Dhaka, Bangladesh  
*Secondary School Certificate (SSC)* 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** 2024  
*Researcher*

- 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** *Node.js, React.js, MongoDB, Docker, Kubernetes*  
*Paid Internship Project* 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** *ATMega32, Kotlin, Bluetooth (HC-05)*  
*Hardware & Mobile Application Project* 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** *Node.js, Express, React.js, PostgreSQL*  
*Web Application Project* March 2024

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

**PoodFanda** *Java, Socket Programming, Java Swing*  
*Desktop Application Project*

- 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).