Tahsin Ahmed

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About Me

I am deeply committed to exploring a broad spectrum of computational technologies, with a specialized interest in **Cybersecurity**, and **Software Development**. Driven by my competitive nature, I have participated in numerous competitions and achieved significant milestones. As a result, these experiences have honed my leadership, teamwork, and critical thinking skills while enhancing my resilience under pressure.

Education

BRAC University, *BSc in Computer Science*   2019 - 2024

- CGPA: 3.49 / 4.0
- Coursework: Introduction to Computer Security, Cryptography, Software Engineering.

Research & Publications

Journal Article

- Ahmed, T., Saha, A., Nuhan, A., Noor, N. A. B. M., Ahmed, M. F., & Hossain, M. I. (2025). HELO Cryptography: A Lightweight Cryptographic System for Enhancing IoT Security on P2P Data Transmission. Internet of Things and Cyber-Physical Systems. [Under review]

Survey Article

- Ahmed, T., Raj. F. K., Ferdousi, T. R., Sarkar, N., & Ferdous, M. S. (2025). A Systematic Literature Review on Detecting BEC Cyberattacks Using Machine Learning. [Work in progress]

Honors & Awards

National STEAM Olympiad   2024

- **Rank:** Top 10 Finalist, **Segment:** ICT & Digital Security, **Project:** Cryptography, **Award:** View certificate

Intra-university Programming Contest   2022

- **Rank:** 13th among 187 teams, **Team:** Code Breakers, **Award:** View rank

Vice Chancellor's Honor List   Spring 2021, Summer 2020

- Honored twice in recognition of academic excellence during the BSc in Computer Science program.

Intra-university BUCC Hackathon   2020

- **Rank:** 1st, **Project:** Prototype Design for a Music Therapy App, **Award:** View certificate

Intra-school Science Festival and Olympiad   2013

- **Rank:** 3rd, **Category:** General Science, **Project:** Save Trees from Extinction, **Award:** View certificate

Musical Instrument Playing   2010

- **Rank:** 3rd, **Category:** Tabla, **School:** Bangladesh Sishu Academy, **Award:** View certificate

Technical Skills

- **Programming Language:** Python, JavaScript.
- **Cybersecurity:** Cryptography, Phishing, Social Engineering, Spoofing, DoS Attack, Brute Force Attack, Spyware, SQL injection, XSS, Virus and Malware writing, etc.
- **Software Development:** SDLC Framework, MERN Stack, Electron JS, MySQL, MongoDB, CSS, Figma, Git.

Certifications

- Cryptography I: View certificate ↗
- Python 3 Programming: View certificate ↗
- Full Stack MERN Web Development with JavaScript: View certificate ↗

Projects

Cybersecurity

- DoS – Email Bombing: View project ↗
- Malware – Ransomware: View project ↗
- Spyware – Keylogger: View project ↗
- Brute Force – Dictionary Attack: View project ↗

Software Development

- HELO Cryptography: View project ↗
- Foodbyte Social Media: View project ↗

Extracurricular Activities

- **Capture The Flag:** Practicing various CTF challenges on TryHackMe to develop practical cybersecurity skills. Additionally, I have secured first place in the Bronze and Sapphire Leagues.
  TryHackMe: View profile ↗.
- **Leadership and Team Management:** Involved with leadership and team management through group tasks and competitions, such as hackathons and Olympiads.
- **Music:** I am involved in music as a hobby after learned tabla at Bangladesh Shishu Academy.

Referees

- **Dr. Muhammad Iqbal Hossain:** Associate Professor, BRAC University. Email: iqbal.hossain@bracu.ac.bd
- **Dr. Md Sadek Ferdous:** Professor, BRAC University. Email: sadek.ferdous@bracu.ac.bd
- **Md Faisal Ahmed:** Lecturer, BRAC University. Email: faisal.ahmed@bracu.ac.bd