

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 2024

- BSc in Computer Science
- CGPA: 3.49 / 4.0

Research & Publications

Journal

- 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. <https://helocrypto.pythonanywhere.com> 🔗

Note: Manuscript number of this paper is IOTCPS-D-25-00046R1. It is currently under revision after receiving positive peer review from the Q1 journal.

Honors & Awards

National STEAM Olympiad 2024

- **Rank:** 4th (Top 10 Finalist), **Segment:** ICT and 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 Summer 2020, Spring 2021

- Awarded 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, SQL Injection, Phishing, Social Engineering, CSRF, Spoofing, DoS Attack, Brute Force Attack, Spyware, Virus and Malware writing, etc.
- **Computer Network:** OSI and TCP/IP Modeling, Cisco Packet Tracer, Protocols.
- **Software Development:** SDLC Framework, MERN Stack, Electron JS, SQL, NoSQL, Git, CSS.
- **Database:** MySQL, MongoDB.

Certifications

- Cryptography I, Link: [View certificate](#)
- Python 3 Programming, Link: [View certificate](#)
- Full Stack MERN Web Development with JavaScript, Link: [View certificate](#)
- The Bits and Bytes of Computer Networking, Link: [View certificate](#)

Projects

Cybersecurity

- DOS – Email Bombing, Link: [View project](#)
- Malware – Ransomware, Link: [View project](#)
- Spyware – Keylogger, Link: [View project](#)
- Brute Force – Dictionary Attack, Link: [View project](#)

Software Development

- Foodbyte, Link: [View project](#)
- Cyberengine, Link: [View project](#)
- Portfolio, Link: [View project](#)
- Ditch The Block, Link: [View project](#)
- Desktop Application, Link: [View project](#)

Computer Network

- Network Building for Counter Terrorism Unit, Link: [View project](#)

Extracurricular Activities

- **Capture The Flag:** Participated in various CTF challenges on TryHackMe to develop practical cybersecurity skills. Also, I have secured 1st Place in the Bronze and Sapphire League.
TryHackMe: [View profile](#)
- **Competitive Programming:** Participated in Hackerrank challenges, achieving a 3-star badge in Python.
HackerRank: [View profile](#)
- **Leadership and Team Management:** Involved with leadership and team management skills through group tasks and competitions like hackathons and Olympiads.
- **Music:** Involved in music as a hobby, secured 3rd place in playing Musical Instruments at the Bangladesh Shishu Academy.