# Shihab Ahmed

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in sahmed09 —

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#### **Research Interests**

System Security, Malware Analysis, Cyber Threat Intelligence, AI in Cybersecurity

#### Technical Skills

**Languages** Python, C++, Java, Latex **Framework** Keras, Tensorflow, Django Rest **DBMS Tools** SQL, PostgreSQL, MySQL

Developer Tools GitHub, NetBeans, Visual Studio Code Simulation Tools OPNET Modeler, Cisco Packet Tracer Front End HTML, CSS, Bootstrap

# **Education**

### Towson University, Towson, MD, USA

Aug 2024 – Dec 2028 (Expected)

PhD in Information Technology

GPA: 4.00/4.00

Comilla University (CoU), Cumilla, Bangladesh

Nov 2021 - Sep 2022

Master of Science in Information and Communication Technology

GPA: 3.75/4.00

Comilla University (CoU), Cumilla, Bangladesh

Feb 2016 - Mar 2021

Bachelor of Science in Information and Communication Technology

GPA: 3.79/4.00

# **Work Experience**

#### **Graduate Research Assistant, Towson University**

Aug 2024 – Present

Supervisor: Dr. Md Sajidul Islam Sajid

- Research Focus: System Security, Malware Analysis, GenAI for Cyber Deception Orchestration
- Utilizing Generative AI models and prompt engineering to automate the creation of cyber deception ploys.

#### Research Assistant, Advanced Machine Intelligence Research (AMIR) Lab

Aug 2023 - Jul 2024

Supervisor: Dr. Mohammad Firoz Mridha

- Utilized NLP techniques to develop and implement aspect-based sentiment analysis models for the Bengali language.

#### Software Engineer, GridFlow Pro (Remote)

Jun 2021 - Nov 2021

Backend Developer (Django)

- Designed APIs using the Diango REST Framework.
- Worked with cross-functional teams to communicate project requirements and proposals.
- Worked with Git, and Gitlab for version control.
- Deployed web applications on the Ubuntu server.

#### **Publications**

SPADE: Enhancing Adaptive Cyber Deception Strategies with Generative AI and Structured Prompt Engineering

Shihab Ahmed, ABM Rahman, Md Morshed Alam, Md Sajidul Islam Sajid

IEEE CCWC, Las Vegas, NV, 2025

https://doi.org/10.48550/arXiv.2501.00940

tRF-BERT: A Transformative Approach to Aspect-Based Sentiment Analysis in the Bengali Language

Shihab Ahmed, Moythry Manir Samia, Maksuda Haider Sayma, Md Mohsin Kabir, and M. F. Mridha

PLOS ONE Journal, 2024

10.1371/journal.pone.0308050

## **Awards & Achievements**

- Towson University Spring 2025 Doctoral Student Scholarship
- Best Presenter Award, IEEE CCWC 2025
- National Science and Technology Fellowship (2022-2023)
- Junior School Certificate (JSC) Scholarship, Dhaka Board, 2010