Shihab Ahmed

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Research Interests

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

Technical Skills

Languages Python, C, 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

Comilla University (CoU), Cumilla, Bangladesh **Nov 2021 – Sep 2022**
Master of Science in Information and Communication Technology
CGPA: 3.75/4.00

Comilla University (CoU), Cumilla, Bangladesh **Feb 2016 – Mar 2021**
Bachelor of Science in Information and Communication Technology
CGPA: 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 at GridFlow Pro (Remote) **Jun 2021 – Nov 2021**
Backend Developer (Django)
- Designed APIs using the Django 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

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

Projects

COVID-19 Detection and Prediction Using Chest X-Ray Images **Dec 2020 – Mar 2021**
Supervisor: Md. Imran Hossain *GitHub Link*
- Applied deep learning techniques to develop a robust COVID-19 detection system.

GaanGhor **Oct 2019 – Feb 2020**
Supervisor: Md. Rakib Hasan *GitHub Link*
- Developed an online library management system using HTML, CSS, Bootstrap, PHP, and JavaScript.

Awards & Achievements

- National Science and Technology Fellowship (2022-2023)
- Dhaka Board JSC Scholarship in 2010