Sifat Muhammad Abdullah

Ph.D. Student

Virginia Tech
Department of Computer Science
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Education

2021–Present	**Ph.D. in Computer Science**, expected 2025
	Virginia Polytechnic Institute and State University, Blacksburg, VA, United States.
	Research Interests: Security and Machine Learning.
	Advisor: Dr. Bimal Viswanath.
2015–2019	**B. Sc. in Computer Science**
	Bangladesh University of Engineering and Technology, Dhaka, Bangladesh.

Work Experiences

2022–present	**Graduate Research Assistant**
	Department of Computer Science, Virginia Tech, Blacksburg, VA, United States.
	Research Topic: Evaluating and Improving Security Aspects of Deepfake Content Detectors.
2021	**Graduate Teaching Assistant**
	Department of Computer Science, Virginia Tech, Blacksburg, VA, United States.
2020	**Graduate Research Assistant**
	Bangladesh University of Engineering and Technology, Dhaka, Bangladesh.
	Research topic: Road Network Detection with Graph Convolution and Differentiable Pooling.
2019	**Junior Software Engineer**
	REVE Systems, Dhaka, Bangladesh.

Honors & Awards

2015, 2016, 2017, 2018	Dean's List Award from Bangladesh University of Engineering and Technology (BUET).

Publications

ACSAC'23	**A First Look at Toxicity Injection Attacks on Open-domain Chatbots**
	Aravind Cheruvu, Connor Weeks, <u>Sifat Muhammad Abdullah</u>, Shravya Kanchi, Danfeng (Daphne) Yao, Bimal Viswanath.
	ACSAC, Austin, TX, Dec 2023.
IEEE S&P'23	**Deepfake Text Detection: Limitations and Opportunities**
	Jiameng Pu, Zain Sarwar, <u>Sifat Muhammad Abdullah</u>, Abdullah Rehman, Yoonjin Kim, Parantapa Bhattacharya, Mobin Javed, Bimal Viswanath.
	IEEE S&P, San Francisco, California, May 2023.
PLOS ONE'22	**CHAPAO: Likelihood and hierarchical reference-based representation of biomolecular sequences and applications to compressing multiple sequence alignments**.

Md Ashiqur Rahman, Abdullah Aman Tutul, <u>Sifat Muhammad Abdullah</u>, Md Shamsuzzoha Bayzid.

PLOS ONE Journal, 2022.

SIGSPATIAL'20 **A Web-Based System for Efficient Contact Tracing Query in a Large Spatio-Temporal Database**.

Shadman Saqib Eusuf, Kazi Ashik Islam, Mohammed Eunus Ali, <u>Sifat Muhammad Abdullah</u>, Abdus Salam Azad.

SIGSPATIAL, Seattle, WA, USA, November, 2020.

Conference Experiences

USENIX Security'21 Attended USENIX Security Symposium (virtual conference) in August, 2021.

NDSS'21 Attended Network and Distributed System Security Symposium (virtual conference) in February, 2021.

Service and Extracurricular Involvement.

VT@CS Graduate student volunteer at annual graduate recruiting events.

BUET@CS Ambassador of BUET Career Club.

Skills

Languages Python, Java, Javascript, C++, C, MySQL, Firebase, Bash.

Frameworks Tensorflow, PyTorch, Keras, Hugging Face, DL models (Transformers, CNNs, LSTMs, RNNs, etc.).

Tools Git, LaTeX, Unix systems.