

MOHAMMAD ISHTIAQ ASHIQ KHAN

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HIGHLIGHTS

- Have advanced knowledge of OOP, algorithms, data structures, computer networks, network security, and relational DBMS.
- Demonstrated strong teamwork skills in collaborative research and multiple team projects.
- Developed effective communication skills by interacting with students at different levels of expertise while being employed as a university lecturer.
- Contributed to two open source projects in TextAttack and Mail-in-a-Box.

EXPERIENCE

Graduate Research Assistant, Virginia Tech

Jan 2021 – Present

- Focusing on how a data-driven approach can improve mismanagement and security of public key infrastructure (PKI).

Lecturer, United International University, Dhaka, Bangladesh

Jul 2019 - Jan 2021

- Taught Network Security, Artificial Intelligence Laboratory, Object Oriented Programming, etc.
- Supervised student projects.

Full Stack Software Engineer, InfoSapex Limited, Dhaka, Bangladesh

Nov 2018 - Jul 2019

- Developed a Procurement Management System for both server-side and client-side.
- Designed a large, normalized database connecting multiple modules.
- Added an efficient real-time report generation system.
- Managed the server-side configuration and deployment of the system.
- Stack: Django Rest, JS, jQuery, HTML, CSS, Bootstrap, PostgreSQL, Celery

EDUCATION

Ph.D. in Computer Science and Applications
Virginia Tech

CGPA: 4.00/4.00 (Ongoing)

Jan 2021 – Dec 2024 (Expected)

B.Sc. in Computer Science and Engineering
Bangladesh University of Engineering and Technology (BUET)

CGPA: 3.83/4.00

Jul 2014 – Oct 2018

PROJECTS

Automating DANE management

- Contributed to an open source project to automate DANE configuration updates after key rollover [\[Link\]](#)
- Conditionally accepted in USENIX Security 2022

A Study on Adversarial Training: Is adversarial training transferable in the text domain?

- Conducted an experiment to check AT transferability across adversarial frameworks [\[Link\]](#), Framework: PyTorch
- Fixed a bug on the reference open-source framework [\[Link\]](#)

Experimenting with Web Honeypots: How robust is SNARE-TANNER?

- Devised and demonstrated vulnerabilities for attackers to bypass detection in SNARE-TANNER framework, [details here](#).

PUBLICATIONS

Measurement and Analysis of Automated Certificate Reissuance

- Authors: Olamide Omolola, Richard Roberts, Md. Ishtiaq Ashiq, Taejoong Chung, Dave Levin, and Alan Mislove
- In Proceedings of the Passive and Active Measurement Conference (PAM), Virtual, Mar 2021

Domain Flux based DGA Botnet Detection Using Feedforward Neural Network

- Authors: Md. Ishtiaq Ashiq, Protick Bhowmick, Md. Shohrab Hossain, and Husnu S. Narman
- In IEEE Military Communications Conference (MILCOM), Norfolk, VA, USA, Nov 12-14, 2019

TECHNICAL SKILLS

Languages Python, Java, C++, C, \LaTeX , JavaScript, Assembly (x86), familiar with R

Frameworks Django Rest, Tensorflow, PySpark, PyTorch, Node.js

DBMS SQL, PostgreSQL, familiar with MongoDB

Other HTML, CSS, Bootstrap, jQuery, familiar with Android, Redis, Apache, AWS

ACHIEVEMENTS

Awarded University Merit List Scholarship, and Dean's List Scholarship for academic performance at BUET.