

Mohammad Ishtiaq Ashiq Khan

CS PhD STUDENT AT VIRGINIA TECH

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WORK

EXPERIENCE

Graduate Research Assistant, Virginia Tech

Supervisor: Dr. Taejoong Chung

- Currently involved in research related to DNS security

Lecturer at United International University, Dhaka, Bangladesh

Department of CSE

Jul '19 - Jan '21

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

Software Engineer at InfoSapex Limited, Dhaka, Bangladesh

Department of Design and Development

Nov '18 - Jul '19

- Developed and deployed a Procurement Management System (available here: proinfo.lged.gov.bd)

EDUCATIONAL QUALIFICATION

Virginia Tech, Blacksburg, Virginia, USA

Ph.D., Computer Science and Applications

CGPA: 4.00/4.00 (Ongoing)

Jan' 21 - Present

Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

Bachelor of Science, Computer Science and Engineering

CGPA: 3.83/4.00

Jul' 14 - Oct' 18

GRE Verbal: 160 (86th Percentile), Quant: 169 (95th Percentile), AWA: 4.0 (57th Percentile)

TOEFL (108) Reading: 28, Listening: 30, Speaking: 24, Writing: 26

RESEARCH INTERESTS

Network Security and Measurement, Data Analysis, Machine Learning

PUBLICATIONS

Measurement and Analysis of Automated Certificate Reissuance

Supervisor : Dr. Taejoong Chung

May '20 - Nov '20

Authors: Olamide Omolola, Richard Roberts, Md. Ishtiaq Ashiq, Taejoong Chung, Dave Levin, and Alan Mislove

- In Proceedings of the Passive and Active Measurement Conference (PAM21), Virtual, Mar 2021

Domain Flux based DGA Botnet Detection Using Feedforward Neural Network

Supervisor : Dr. Md. Shohrab Hossain

Jan '18 - Jul '19

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

ACADEMIC PROJECTS

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

Supervisor : Dr. Bimal Viswanath

Mar '21 - Apr '21

- [GitHub Link](#)
- Framework: PyTorch

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

Supervisor : Dr. Angelos Stavrou

Mar '21 - Apr '21

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

Improving DANE management

Supervisor: Dr. Taejoong Chung

Oct '20 - Present

- Contributed to an open source project to automate DANE configuration updates after key rollover [\[Link\]](#)

Road Genie (2017)

- An android application to assist users get an optimal route considering 3 metrics: distance, time, and comfort

COURSE PROJECTS

- Implemented multi-programming, demand paging, and priority scheduling to emulate a multi-threading CPU in Operating Systems course.
- Implemented 5 stages of compiler design to build a basic compiler for the C language in Compiler course.
- Implemented several learning algorithms such as AdaBoost, EM clustering, ALS based recommendation, template matching in images, etc. as part of Machine Learning and Pattern Recognition course.

SKILLS

Languages: Python, Java, C++, C, L^AT_EX, JavaScript, Assembly (x86)

Framework: Django Rest, Tensorflow, PySpark, PyTorch

Database Management System: SQL, PostgreSQL

Other: HTML, CSS, Bootstrap, jQuery, Android (basic), Redis (basic), NodeJS (basic), Apache (basic)

AWARDS & ACHIEVEMENTS

Awarded **University Merit List Scholarship** for academic performance at BUET

Awarded **Dean's List Scholarship** for academic performance at BUET

Awarded **Dhaka Board SSC & HSC Scholarship** in 2011 & 2013 respectively