

Mohammad Ishtiaq Ashiq Khan

CS PhD STUDENT AT VIRGINIA TECH

Address: 522 Prices Fork Road, Apt B9,
Blacksburg, Virginia, USA

Phone: +15404498267

E-mail: ishtiaqashiq5@gmail.com, iashiq5@vt.edu

Github: <https://github.com/Ashiq5>

Website: <https://ashiq5.pythonanywhere.com/>

WORK

EXPERIENCE

Graduate Research Assistant, Blacksburg, Virginia, USA

Supervisor: Dr. Taejoong Chung

- Currently involved in research related to security and data analysis

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

- Worked on the development of a Procurement Management System (proinfo.lged.gov.bd) and a Document Management System

EDUCATIONAL QUALIFICATION

Virginia Tech, Blacksburg, Virginia, USA

Ph.D., Computer Science and Applications

Jan' 21 - Present

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

Bachelor of Science, Computer Science and Engineering

Jul' 14 - Oct' 18

CGPA: 3.83/4.00

Notre Dame College, Dhaka, Bangladesh

Higher Secondary Certificate

Jul' 11 - June' 13

GPA: 5.00/5.00

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, Data Analysis, Web and Information Retrieval

RESEARCH WORK

Measurement and Analysis of Automated Certificate Reissuance

Supervisor : Dr. Taejoong Chung

May '20 - Nov '20

AND

PUBLICATIONS

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

Improving Ad Hoc Network of Flying Devices Using AODV Routing Protocol

Supervisor : Dr. Md. Shohrab Hossain

Sep '17 - Dec '18

- Worked on the implementation of the proposal using Network Simulator 3

ACADEMIC PROJECTS

Developed a Sentiment Analysis project to predict movie rating from user reviews (2018)

- Results were produced using Multilayer perceptron (MLP) and Long short-term memory (LSTM)
- IMDB movie reviews were used as the training data set
- Framework: Tensorflow

Developed an Android application “Road Genie” to assist users get an optimal route towards destination based on his/her preference (2017)

- Platform: Android

Designed and developed an Online Cinema Booking System (2016)

- DBMS: SQL, Front End: JSP-Servlet, Back End: Java

COURSE PROJECTS

Emulation of a multi-threading CPU in NACHOS

Course: Operating Systems

2017

- Implemented multiprogramming, demand paging, and priority scheduling

End to end compiler for C language

Course : Compiler

2016

- Implemented 5 stages of compiler design (lexical analysis, syntax analysis, semantic analysis, optimization, code generation)

SKILLS

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

Framework: Django Rest, Tensorflow, PySpark

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

Stood 34th (8th at BUET) in ACM ICPC Preliminary 2016, Dhaka amongst more than 200 teams