

Mohammad Taha Khan

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Education

Ph.D in Computer Science

University of Illinois, Chicago, GPA: 4.0/4.0
Internet Security, Privacy and Data Analytics

CHICAGO, USA
2015 – Present

Bachelor of Science in Electrical Engineering

Lahore University of Management Sciences, GPA: 3.5/4.0

LAHORE, PAKISTAN
2009 – 2013

Skills

Languages: Python, C/C++, Java, Bash, R, x86 Assembly

Data Analytics: Spark, Hadoop, SQL, MS Excel

Networking: Socket Programming, Wireshark, TCPdump, NS2, OpenFlow, MiniNet, Bro

Web Technologies: HTML/CSS, JavaScript

Tools: Vim, Awk, GDB, WEKA, MATLAB, Git, SVN, Simulink, L^AT_EX, Microsoft Office

Cloud Platforms: Amazon EC2, Microsoft Azure, Rackspace, Emulab

Security/Penetration Testing: Backtrack, Kali Linux, Metasploit Framework

Work & Academic Experience

Research Intern, International Computer Science Institute, Berkeley, CA

Security and Privacy Aspects of Commercial VPNs

Skills: Python, VPNs, Security/Encryption Protocols, Browser Extension & Web Service Development

Awarded the OTF Fellowship to study VPN services on how they handle customer traffic and implement security

JUNE '17 – DEC '17

Research Intern, NEC Laboratories America, Princeton, NJ

Efficient Management of Multi-Tenant Datacenters

Skills: Python, MongoDB, Datacenter Design, Large Scale Data Analysis

Performed analysis on datacenter configuration logs to develop intelligent VM placement algorithms

MAY '16 – AUG '17

Graduate Research Assistant, University of Illinois, Chicago, IL

Retrospective Auditing of Cloud Storage Data

Skills: Python Flask, Cloud Storage APIs, Survey Development, Statistics

Performed a user survey in order to understand how individuals perceive storage and privacy in the cloud

Evaluating Added Dimensions of User Harm Due to Malware Infection Events

Skills: C++, Python, Bash, Statistics, Big Data

We create methods to evaluate the second order effects of harm caused by malware infection events over the Internet

Empowering Online Harassment Victims through Multidisciplinary Approaches

Skills: Pyspark, Spark, Hadoop, Selenium, Machine Learning, Language Processing

We use computer science methods to identify instances of harassment of #gamergate in the Twittersphere

Evaluating the Negative Externalities of Typosquatting

Skills: Python, C++, TCPdump, Wireshark, Big Data, Network Analytics

Looked for typosquatting domains within a passive dataset and evaluated the harm in terms of time and economic losses

JAN '15 – PRESENT

Graduate Research Assistant, Stony Brook University, Stony Brook, NY

An Empirical Evaluation of Censorship Leakage Across Borders

Skills: Python, Bash, VPNs, Internet Measurement

Developed a system with VPN services to collect data from vantage points and record instances of censorship leakage

AUG '14 – DEC '14

Research Associate, LUMS School of Science and Engineering, Lahore, Pakistan

Studied covert channels in datacenters and also developed a sentiment analysis framework to predict viral threads

JAN '13 – MAY '14

Teaching Assistant

Computer Network Security, Foundations of Computer Science & Computer Networking,

FALL '13, FALL '14, FALL '17

Graduate Coursework

Research Methods in Computer Science, Empirical Analysis, Computer Algorithms, Distributed Systems, Computer Networking, Computer & Network Security, Systems Security, Artificial Intelligence, Databases, and Software Engineering

Recent Publications

An Empirical Analysis of the Commercial VPN Ecosystem

ACM IMC, '18

Forgotten But Not Gone: Identifying the Need for Longitudinal Data Management in Cloud Storage

ACM CHI, '18

Old is Still Gold: A Comparison of Cyber and Regular Fraud in the United States

IEEE CONPRO, '17

Sneak Peek: High Speed Covert Channels in Data-Center Networks

IEEE INFOCOM, '16

Using High-Fidelity Networking Data in Ethically Sound Research

NS ETHICS, ACM SIGCOMM '15

Every Second Counts: Quantifying the Negative Externalities of Cybercrime via Typosquatting

IEEE, S&P '15