

ASIM IKRAM

Research Assistant

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Islamabad, Pakistan

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PUBLICATIONS

Authorization Policies Specification and Consistency Management within Multi-Cloud Environments – NordSec 2018

Authors: Ehtesham Zahoor, Asim Ikram, Sabina Akhtar, Olivier Perrin

URL: https://doi.org/10.1007/978-3-030-03638-6_17

AMclr - An Improved Ant-Miner to Extract Comprehensible and Diverse Classification Rules – GECCO 2019

Authors: Umair Ayub, Asim Ikram, Waseem Shahzad

URL: <http://doi.acm.org/10.1145/3321707.3321833>

EDUCATION

Master's in Computer Sciences

CGPA: 3.77/4.00

National University of Computer and Emerging Sciences

August 2016 – June 2018

Islamabad, Pakistan

Bachelor's in Computer Sciences

CGPA: 3.30/4.00

National University of Computer and Emerging Sciences

August 2012 – June 2016

Islamabad, Pakistan

PROFESSIONAL EXPERIENCE (14 MONTHS)

Research Assistant

National Center for Cybersecurity

March 2019 – Present

Islamabad, Pakistan

- Research and development on mobile device forensics
 - My responsibilities included the creation of a forensic image as well as the extraction of forensic artifacts such as contacts, SMS, call logs, etc. Visualization of data in graphical and tabular formats on a web page was also under my responsibility.
 - The project was funded by the Higher Education Commission of Pakistan
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Software Design Engineer

Xflow Research Inc.

July 2018 – March 2019

Islamabad, Pakistan

- **Virtual BNG:** My responsibilities included the implementation of the PPPoE and LCP protocols. A secondary responsibility also included the testing of the protocols using the rp-pppoe client
- **Virtual BRAS:** Implementation of a central command line interface for multiple virtual machines. Testing of the interface was also under my responsibility. The project was funded by Ignite Technology Fund, one of the most prestigious funding organizations in Pakistan

PROJECTS

DNS Spoofing

- A DNS spoofer that consisted of setting up a DNS server and redirecting a user to a fake website. The project was part of the Stanford CS-155 course.
- **Tools and Technologies:** Python, Scapy, Bind9.

Distributed Password Cracking System

- A system that used concepts of distributed systems to crack a password.
- **Tools and Technologies:** Golang, Atom

GPU Cache Bypassing

- A code that automatically modified Nvidia PTX code to include cache bypasses to improve GPU cache performance.
- **Tools and Technologies:** Java, Nvidia Visual Profiler, Nvidia Geforce GT 630m.

CodePlay

- A tool that automatically converted code written in Java to C# and vice versa.
- **Tools and Technologies:** Java, C#.

RESEARCH INTERESTS

Cybersecurity Cloud Computing Network Security

SKILLS

Machine Learning Digital Forensics Python Java Latex Linux

AWARDS

- Gold Medalist in MS (CS)
- Multiple time Dean's list award holder

LANGUAGES

- **English** – Excellent (IELTS Score: 8.0/9.0)
- **Urdu** – Native Language