

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 of Computer Science

CGPA: 3.77/4.00

National University of Computer and Emerging Sciences

August 2016 – June 2018

Islamabad, Pakistan

Bachelor of Computer Science

CGPA: 3.30/4.00

National University of Computer and Emerging Sciences

August 2012 – June 2016

Islamabad, Pakistan

PROFESSIONAL EXPERIENCE

Research Associate

National Center for Cyber Security at Air University

March 2020 – Present

Islamabad, Pakistan

- Research and development on mobile device forensics
- Implemented asynchronous server side code using socket.io
- Performed analysis on the extracted artifacts
- Wrote automated test cases for the tool (using UI Vision RPA)
- Code integration, deployment, and documentation were also under my responsibility
- Coordinated tasks between team members

Research Assistant

National Center for Cyber Security at Air University

March 2019 – March 2020

Islamabad, Pakistan

- Research and development on mobile device forensics
- Implemented a tool for the extraction of forensic artifacts (contacts, SMS, application data, etc.) from an Android smartphone
- Implemented major parts of the back-end code using Python and Flask
- Implemented the front-end/user interface using Javascript and JQuery along with HTML and CSS
- Used REST APIs for communication between the back-end and front-end code and ORM for communication with the database

Software Design Engineer

Xflow Research Inc.

📅 July 2018 – March 2019

📍 Islamabad, Pakistan

- **Virtual BNG:** Successfully implemented and tested parts of the PPPoE and LCP protocols. Tested the protocols using the rp-pppoe client
- **Virtual BRAS:** Implemented a central command line interface to handle 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

UNIVERSITY 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

Network Security

Intrusion Detection

Trust Management

Malware Analysis/Detection

SKILLS

Machine Learning

Digital Forensics

Python

Java

Latex

Linux

Git/Github

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