

# ASIM IKRAM

## Research Assistant

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Islamabad, Pakistan

https://asimikram1.github.io/

## PUBLICATIONS

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### 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](https://doi.org/10.1007/978-3-030-03638-6_17)

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### 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

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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

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Research Assistant

**National Center for Cyber Security at Air University**

March 2019 – Present

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 and all of the front-end part of the tool
- 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
- 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:** 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

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Teaching Assistant - Cyber Security

**National University of Computer and Emerging Sciences**

📅 August 2017 – December 2017

📍 Islamabad, Pakistan

- My responsibilities included assisting in labs and assignments

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Teaching Assistant - Concurrent and Distributed Systems

**National University of Computer and Emerging Sciences**

📅 January 2017 – June 2017

📍 Islamabad, Pakistan

- My responsibilities included assisting in labs, quizzes, assignment, and the course project

## PROJECTS

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### 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

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Cybersecurity

Cloud Computing

Network Security

## SKILLS

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Machine Learning

Digital Forensics

Python

Java

Latex

Linux

Git/Github

## AWARDS

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

## LANGUAGES

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