

# Osama Nusair

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<https://www.linkedin.com/in/xamaa6> | **Address:** 65 Tallington Road, B33 0PL, Birmingham, United Kingdom (Home)

## ● ABOUT ME

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A cyber security researcher/engineer with a passion for technology and a commitment to staying up-to-date with evolving digital world and its threat landscape. I bring a diverse range of skills, experience and knowledge that have been developed over the years through both my formal education and professional experience.

## ● WORK EXPERIENCE

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01/02/2024 – 31/07/2024 Birmingham, United Kingdom

### LAB DEMONSTRATOR BIRMINGHAM CITY UNIVERSITY

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- Engaged with undergraduate students and practically demonstrated lab sessions
- Assisted students in Network Security labs
- Ethical Hacking tools and techniques with practical examples

01/03/2022 – 31/08/2023 Islamabad, Pakistan

### FOUNDER AIROVERFLOW

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- Conducted Vulnerability Assessment & Penetration Testing
  - Pakistan Bureau of Statistics
  - Ministry of Planning, Development & Special Initiatives
- Developed a prototype of Cyber Range
- Red Team Exercises
- Multiple workshops on Ethical Hacking & Defense
- Developed a Malware Analysis Tool in Sandbox Environment
- Conducted Pakistan Cyber Security Challenge (PCC) in 2022 & 2023

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01/08/2021 – 28/02/2022 Islamabad, Pakistan

### COURSE INSTRUCTOR NATIONAL AND VOCATIONAL TECHNICAL TRAINING CENTRE (NAV TTC)

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- Course Instructor
- Taught Ethical Hacking & Defense course to students from different backgrounds
- Following modules covered
  - Introduction to Linux
  - Network Scanning
  - Penetration Testing tools & techniques
  - Intrusion Detection & Prevention Systems

01/02/2019 – 30/07/2021 Islamabad, Pakistan

### RESEARCH ASSISTANT NATIONAL CENTRE FOR CYBER SECURITY (NCCS)

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- Smartphone Digital Forensics Tool Development
- Worked on Android Digital Forensics tool development
- Developed iOS Forensics toolkit from scratch

## ● EDUCATION AND TRAINING

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18/09/2023 – 13/09/2024 Birmingham, United Kingdom

### MSC CYBER SECURITY Birmingham City University

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- Research and Development into Honeypots & Honeynets
- Honeypot strategies for edge network devices (Firewalls & VPN)
- Detection of multiple attack vectors using MITRE ATT&CK Threat Model

- Cyber Threat Intelligence (CTI) based on ENISA Threat Landscape

**Website** <https://www.bcu.ac.uk/> | **Thesis** HoneyPot Strategies for Edge Network Devices

05/09/2018 – 02/06/2022 Islamabad, Pakistan

**BS CYBER SECURITY** Air University, Islamabad

- Developed an indigenous security information & events management (SIEM) solution
- Log collection and parsing using agent based and agentless techniques
- Python as primary programming language. C# for windows agent
- Python Django for Web UI

**Website** <https://www.au.edu.pk/> | **Thesis** Security Information & Events Management (SIEM)

## ● **LANGUAGE SKILLS**

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● **DIGITAL SKILLS**

Cyber Security ( Cryptography, IDS, HIDS, NAC, DLP e SIEM ) | Digital Forensics | Cybersecurity | Vulnerability Assessment | Penetration Testing | Security Operations Center | Network Security | Linux | Endpoint Security | Web Application Security | Incident Response | Vulnerability Management | IT Security | Ethical Hacking | Malware Analysis | ISO 27001 | C / C# / C++ | Back-end (Flask, Django) | Intrusion Detection and Prevention System (IDS / IPS) | Linux (Red Hat, Debian) | Cyber Range | Capture The Flag (CTF) | Red Teaming

## ● **PROJECTS**

07/2022 – 08/2023

### **Cyber Range**

- Development of Cyber Range Platform for Red Team exercises
- Tools & Technologies:
  - Openstack
  - Kola Ansible
  - Google Cloud Platform (GCP)
  - Virtualization
  - Software Defined Networking (SDN)

02/2022 – 08/2022

### **Capture The Flag (CTF) Platform**

- Capture The Flag (CTF) platform based on CTFd
- Organized multiple CTF events:
  - Pakistan Cyber Security Challenge (2022 & 2023)
  - Cyber Siege CTF (2022)
  - AirOverflow CTF (2024)

02/2020 – 03/2021

### **iOS Forensics**

- Developed an extensive toolkit for iOS forensics
- Capable of live image acquisition
- Implementation of forensics analysis techniques
- Web frontend

01/2019 – 02/2020

### **Android Forensics**

- Data recovery from android devices
- Digital Forensic imaging and preservation
- Filesystem analysis
- Automation of android root process

09/2019 – 02/2020

### **Ransomware Techniques in C++**

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- Developed techniques of ransomware in C++
- Implemented AES cryptographic algorithm for encryption / decryption

## ● **HONOURS AND AWARDS**

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### **Digital Pakistan Cybersecurity Hackathon - 2021**

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- Won first ever cyber security hackathon of Pakistan in two categories
- Network Attacks & Exploitation
- Speed Programming

### **President Air University Cyber Security Society**

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- Pioneer President of Air University Cyber Security Society (AUCSS)
- Led the society to achieve milestones
- Organized workshops
- Cyber Security Awareness talks and seminars

## ● **REFERENCES**

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### **Suleman Khan**

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Suleman Khan was my supervisor for digital forensics projects at National Centre for Cyber Security (NCCS).

**Email** Suleman.khan@liu.se | **Phone** (+46) 764320237

### **Dr. Kashif Kifayat**

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Dr. Kashif Kifayat was my supervisor for undergraduate final year project on Security Information and Events Management (SIEM) solution.

**Email** Dr.K.Kifayat@gmail.com | **Phone** (+44) 7984053307

### **Dr. Junaid Arshad**

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Dr. Junaid Arshad supervised my Master's Dissertation on Honeypot Strategies for Edge Network Devices.

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