

# HAFIZ MUHAMMAD ATTAULLAH

IEEE, ACM, IAENG, MVP, OSCP

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ResearchGate: <https://www.researchgate.net/profile/Hafiz-Attaullah-2> Citations: 30  
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**EDUCATION**     **Faculty of Computing and Informatics, Multimedia University, Cyberjaya, Malaysia**  
***Doctor of Philosophy (PhD)***, Computer Science (Cyber Security)  
**Thesis Title:** Enhanced Anomaly Based Intrusion Detection for UAV Network  
2026

**Faculty of Electrical and Computer Engineering, NED University of Engineering and Technology, Karachi, Pakistan**  
***Master of Science (MS)***, Cybersecurity and Telecommunication Systems Engineering  
**Thesis Title:** Cybersecurity Risk Assessment and Analysis for NB-IoT Networks  
2023

**Faculty of Engineering and Technology, UoS, Pakistan**  
***Bachelor of Science (BS)***, Telecommunications Engineering  
**Final Year Project:** Exploiting UoS Web Server & Enterprise Network Vulnerabilities with Penetration Testing  
2021

**Stanford University Graduate School of Business, USA**  
***Executive Education (LEAD MBA Program)***  
2024

## EMPLOYMENT HISTORY/POSITIONS HELD

**Head, Offensive Security / Sr. Cybersecurity Consultant**     **2018 - Present**  
NanoTechx, Pakistan and Ireland  
-Successfully Developed multiple innovative infosec products and won several competitions.

**Sr. Lecturer & FYP Head**     **2022 - Present**  
Mohammad Ali Jinnah University (MAJU), Karachi, Pakistan  
-Teaching Cybersecurity and different Computing related courses, to the students of B.E, BS and MS Computer Science/Engineering and Software Engineering. Organizing workshops, conferences & managing FYPs/ research projects (as FYP Head) of BS CS/SE students.  
-Courses Taught:

- Advance Topics in Network Security (MS-CS)

- Cyber Security (BS-CS/SE)
- Information and Network Security (BS-CS/SE)
- Data Communication & Networks (BS-CS/SE)
- Operating Systems (BS-CS/SE)
- Computer Programming (BS-CS/SE)

<b>Research Scientist</b>	<b>2024</b>
AI EYS, Islamabad, Pakistan	
<b>Red Team Lead and Penetration Testing Engineer</b>	<b>2021 - 2023</b>
Greens Fin (Meezan's Islamic FinTech Product), Karachi, Pakistan	
<b>Cybersecurity Lead Trainer</b>	<b>2021 - 2022</b>
NAVTTTC, Govt. of Pakistan	
<b>Associate Network Operations Center Engineer</b>	<b>2020</b>
HEC, Data Center (sRA/LA-POP, PERN2)	
<b>Subject Matter Expert (for CYS course)</b>	<b>2022 - 2024</b>
AI-Explain You Science	
<a href="https://aieys.com/index.html">https://aieys.com/index.html</a>	

## VOLUNTEER EXPERIENCE

<b>Microsoft MVP</b> , Microsoft Learn	09/2024 - Present
<b>Secretary</b> , IEEE Computer Society Karachi Section Chapter	03/2023 - Present
<b>Community Manager</b> , Cisco Community Pakistan	09/2024 - Present
<b>Microsoft MCT</b> , Microsoft	01/2021 - Present
<b>AWS Community Builder</b> , AWS	10/2021 – 2024
<b>IEEE Smart Cities Awards and Recognition Committee</b> , IEEE	2023 – Present
<b>Faculty Advisor</b> , MLSA-MAJU	

## LICENSES & PROFESSIONAL CREDENTIALS

### OSCP/OffSec Licenses

- **PEN-200**: OSCP (Offensive Security Certified Professional)

### Microsoft Licenses

- **MCT**: Microsoft Certified Trainer (2022, 2023, 2024, 2025)
- **AZ-104**: Microsoft Azure Administrator Certification
- **AZ-500**: Microsoft Azure Security Technologies Certification
- **SC-200**: Microsoft Security Operations Analyst Certification
- **AI-900**: Microsoft Azure AI Fundamentals Certification
- **AZ-900**: Microsoft Azure Fundamentals Certification

## Cisco Licenses

- **CCNP:** Cisco Certified Network Professional
- **CCNA:** Cisco Certified Network Associate

## HONORS AND AWARDS

- **Microsoft Most Valuable Professional Award, 2024**
- **Microsoft Imagine Cup, National Winner – 2021**
- **Microsoft Imagine Cup, Runners Up – 2023**
- **BuiltByHer, Finalist and Runners-up of 48-hours Hackathon, 2022**
- **Ignite National Cybersecurity Hackathon Runner's Up, 2021**
- **Best Undergrad research project award (1st Position) in overall Faculty – 2021**
- **Global top 37 Ranking in HackerOne – 2021**
- Got Bounty from HackerOne for multiple Critical, High, Medium level vulnerabilities
- **Cisco NetAcad Most Active Global Instructor - 2021-24**
- **Judge and Panelist** at Hack n Build Hackathon organized by ACM NUCES FAST University Karachi - May, 2022
- **Pro Contributor** of GitHub and **Expert-Category** at Kaggle (Open Source) – 2022
- **Best startup idea Award** in Infosec category at Research and Technology Showcase 2022 at Expo Center – 2022
- Got swags for CloudSeekho 1, 2 and 3 from Google Cloud
- Startup Nanotechx got selected for incubation at National Expansion Plan of NICs
- Startup Nanotechx got selected for incubation at National Incubation Center (Pakistan's Biggest Incubation Network)

## PUBLICATIONS

### INTERNATIONAL BOOK AS AUTHOR

**1. Hafiz Muhammad Attaullah**, "Nano Hacker Handbook Learn How to Hack: A Practical Guide", AMAZON.

Link:<https://www.amazon.com/Nano-Hacker-Handbook-Learn-Practical-ebook/dp/B09ZTQ3DLH>

### Conference Proceedings

**C1.** Rehman, F.U., **Attaullah, H.M.**, Ahmed, F. and Ali, S., 2023. Data Defense: Examining Fintech's Security and Privacy Strategies. Engineering Proceedings, 32(1), p.3. **(Scopus Indexed)**

**C2.** **Attaullah, H. M.**, Memon, S., Erkan, O. F., & Khawar, R. (2024, January). IoT Based Systems and Services: Recent Security Concerns and Feasible Solutions. In 2024 IEEE 1st Karachi Section Humanitarian Technology Conference (KHI-HTC) (pp. 1-6). IEEE. **(Scopus Indexed)**

**C3.** Narejo, I. H., Matloob, M. J., **Attallah, H. M.**, & Khawar, R. (2024, January). Designing and Evaluating a Mobile Social Robot as an Intervention Tool for Autism Spectrum Disorder. In 2024 IEEE 1st Karachi Section Humanitarian Technology Conference (KHI-HTC) (pp. 1-5). IEEE. **(Scopus Indexed)**

**C4.** Syed, M. S., **Attallah, H. M.**, Ali, S., & Aslam, M. I. (2023). Wireless Communications beyond Antennas: The Role of Reconfigurable Intelligent Surfaces. *Engineering Proceedings*, 32(1), 10. <https://doi.org/10.3390/engproc2023032010> **(Scopus Indexed)**

**C5.** Rashid, H., Iftikhar, U., **Attallah, H.M.**, "Deep Learning with Image and Signal Processing in Drone Operations", 2nd International Conference on Emerging Trends & Innovation (2nd ICETI). **(Scopus Indexed)**

**C6.** Iftikhar, U., Rashid, H., **Attallah, H.M.**, " Future Emerging Challenges and Innovations in Next Gen-Cybersecurity and Information Systems Security", 2nd International Conference on Emerging Trends & Innovation (2nd ICETI). **(Scopus Indexed)**

**C7.** Kumbhar, M., F., Ghosh, S., **Attallah, H.M.**, " Machine Learning Algorithms for Computer Vision in Robotics", 2nd International Conference on Emerging Trends & Innovation (2nd ICETI). **(Scopus Indexed)**

**C8.** Qureshi, S., **Attallah, H.M.**, Ashraf, A., Laraib, R. " Adaptive Strategies to Mitigate DDoS Attacks in IoT-Devices through a Moving Target Defense approach in SDN", 2<sup>nd</sup> International Conference on Recent Advances in Computing, AI & Data Science - 2024 (CAIDS-2024).

**C9.** Khaplo, Y., **Attallah, H.M.**, Alam, M., M., Su'ud, M., Sajid, A., Khan, I., U., "Anomaly Based IDS for Rescue Operations Using IoT Network", *Advanced Network Technologies and Computational Intelligence (ICANTCI 2025)*. Springer. **(Scopus Indexed)**

#### **International Journal Paper Publications**

**J1.** Nabi, F., Zhou, X., Iftikhar, U., & **Attallah, H. M.** (2024) "A Case Study of Cyber Subversion Attack based Design Flaw in Service Oriented Component Application Logic. *Journal of Cyber Security Technology*", 8(3), 204-228.

**J2.** **Attallah, H. M.**, Rahat Ali Khan, and Shaheryar Mughal. "Cyber security for Industrial Control System—A Survey." *iKSP Journal of Emerging Trends in Basic and Applied Sciences* 1.1 (2021): 15-21.

**J3.** Ur Rehman, F., & **Attallah, H. M.** The Implications of Artificial Intelligence on Social, Ethics, and Industry: An Exploration of AI's Potential in Healthcare, Banking, and Transportation.

**J4.** Iftikhar, U., **Attallah, H. M.**, Khan, I. U., "Cryptographically Secure Digital Certificates on a Distributed Ledger", *Indonesian Journal of Electrical Engineering and Computer Science*. [Accepted]

**J5. Attaullah, H., M. & Umm-e-Farwa, & Butt, Alishba.** (2021). Exploiting UoS Web Server & Enterprise Network Vulnerabilities with Penetration Testing.  
[https://www.researchgate.net/publication/370156023\\_Exploiting\\_UoS\\_Web\\_Server\\_Enterprise\\_Network\\_Vulnerabilities\\_with\\_Penetration\\_Testing](https://www.researchgate.net/publication/370156023_Exploiting_UoS_Web_Server_Enterprise_Network_Vulnerabilities_with_Penetration_Testing)

**J6. Attaullah, Hafiz Muhammad,** and Iftikhar Ahmed Javed. "Wireless Robotic car control through human interface using eye movement." Interdisciplinary Journal of Applied and Basic Subjects 1.9 (2021): 1-6.

## REVIEWER

- R1.** IEEE Open Journal of the Communications Society (Impact Factor: 6.3)
- R2.** MDPI Technologies
- R3.** Digital Communications and Networks
- R4.** Inderscience Publisher for Int. J. of Business Intelligence & Data Mining
- R5.** Advances in Science, Technology & Engineering Systems Journal (ASTESJ)
- R6.** Ad Hoc Networks, Elsevier
- R7.** Computer Systems Science and Engineering, Tech Science Publishers, USA
- R8.** Computers, Materials & Continua, Tech Science Publishers, USA
- R9.** Neural Computing and Applications (NCAA) Springer Journal
- R10.** Journal of Engineering Research and Reports
- R11.** Asian Journal of Mathematics and Computer Research

## INTERNATIONAL/NATIONAL CONFERENCE COMMITTEE

**CC1. International Conference on Trends and Innovations in Smart Technologies (ICTIST'22), Virtually from London, United Kingdom, 2022**

Role: Technical program committee member

Link: <https://www.aieys.com/ictist.html>

Proceeding Link: <https://www.mdpi.com/2813-0324/5/1>

**CC2. The 2nd International Conference on Advances in Communication Technology and Computer Engineering (ICACTCE'22), Meknes, Morocco, 2022**

Role: Technical program committee member

Link: <https://icactce-conf.com/icactce22/>

Proceeding Link: <https://pubs.aip.org/aip/acp/issue/2814/1>

**CC3. 2nd International Conference on Emerging Trends & Innovation (ICETI), 2024**

Role: Organizer and Technical program committee member

Link: [https://aieys.com/iceti\\_v2/iceti.html](https://aieys.com/iceti_v2/iceti.html)

**CC4. 2nd International Conference on Trends and Innovations in Smart Technologies (ICTIST'2024)**

Role: Organizer and Technical program committee member

Link: <https://aieys.com/ictist24/ictist24.html>

**CC5. First International Conference on Emerging Trends & Innovation (ICETI), 14-15 February, 2024**

Role: Technical program committee member

Link: <https://aieys.com/iceti/iceti.html>

**INTERNATIONAL/NATIONAL SESSIONS AS KEYNOTE SPEAKER**

**KS1. Global 5G Evolution Conference, Malaysia, May 29, 2023**

Topic: XCHANGING IDEAS on 5G Security

Link: <https://www.youtube.com/watch?v=CIFKfzxAe6A>

**KS2. 2nd International Conference on Trends and Innovations in Smart Technologies (ICTIST'2024)**

Topic: Financial Technology Security and Privacy Concerns

**KS3. Pakistan Cisco NetAcad Partners Conference 2023**

Topic: Cisco ASA Firewalls

**TECHNICAL WORKSHOPS AS RESOURCE PERSON**

**RP1. PenTesting Workshop**, Information Security Summit 2023 organized by Maventech SMC-PVT LTD and [NanoTechx](#) at [Mohammad Ali Jinnah University \(MAJU\)](#), Karachi on December 17th, 2023

**RP2. Workshop** on Cloud Security, at Microsoft Ignite After Party at MAJU Karachi, organized by MCT Community Pakistan

**RP3. Workshop** on Cyber Security Strategies to Secure Startups' Digital Health organized at NIC Hyderabad organized by Ignite.

**RP4. Technical Talk**, at TechFest 2023, Mehran University of Engineering and Technology.

**RP5. Technical keynote**, at the Cisco Community Pakistan's Jamshoro/Hyderabad meetup, at MUET on 24 feb 2023.

**RP6. Panelist and VIP Delegate** at CyberGuard 1st day of ITCN ASIA 2023.

**RP7. Workshop:** Geek guide on cybersecurity and Ethical Hacking, Conducted by Green Ed. Tech.

## **PROFESSIONAL COURSES**

**PC1.** Google IT Support-Professional Certificate, Google

**PC2.** ISO/IEC 27001 INFORMATION SECURITY ASSOCIATE, SkillFront,

**PC3.** Specialization in Digital Marketing, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

**PC4.** Machine Learning, STANFORD UNIVERSITY, Coursera

**PC5.** Programming Essentials in Python-PCAP, Cisco Networking Academy

**PC6.** Architecting with Google Compute Engine-Specialization, Google Cloud

**PC7.** HCIA-5G, ilearning.huawei

**PC8.** CyberOps, Cisco Networking Academy

**PC9.** DevNet Associates, Cisco Networking Academy

**PC10.** Programming with MATLAB, Vanderbilt University

**PC11.** Python for Everybody-Specialization, University of Michigan

**PC12.** AI for Everyone, deeplearning.ai

**PC13.** Certified Network Security Specialist, ICSI

**PC14.** Foundations Of Business And Entrepreneurship, SkillFront

**PC15.** Debating & Declamation course, AIE

**PC16.** The Fundamentals of Digital Marketing, Google Digital Garage

**PC14.** Certified AppSec Practitioner (CAP)" exam by The SecOps Group

## **Master Degree Research/Thesis Students (Under my Supervision / Co-Supervision)**

1. SYED MUHAMMAD MUSHTAHER UDDIN, MS-CS 794-2022, Indus University, Karachi, Pakistan. (Term Fall'2024)
2. SYED ZAEEM UL HASAN, SP23-MSCS-0003, Mohammad Ali Jinnah University, Karachi Pakistan. (Term Fall'2024)
3. MUHAMMAD HARRIS, SP23-MSSE-0005, Mohammad Ali Jinnah University, Karachi Pakistan. (Term Fall'2024)
4. HUSSAIN RAZA RIZVI, SP23-MSCS-0012, Mohammad Ali Jinnah University, Karachi Pakistan. (Term Fall'2024)
5. ABDUL SABOOR, FA23-MSPM-0015, Mohammad Ali Jinnah University, Karachi Pakistan. (Term Fall'2024)
6. YOUSUF MUHAMMAD QASIM, SP23-MSPM-0019, Mohammad Ali Jinnah University, Karachi Pakistan. (Term Fall'2024)
7. SYED HASSAN ABID TIRMIZI, SP23-MSPM-0021, Mohammad Ali Jinnah University, Karachi Pakistan. (Term Spring'2024)

8. SYED MUHAMMAD JUNAID ABBAS, FA20-MSCS-0009, Mohammad Ali Jinnah University, Karachi Pakistan. (Term Fall'2023)

#### **Undergrad FYP Research/Thesis (Under my Supervision / Co-Supervision)**

1. ABDULLAH AHMED, SYED NABEEL HUSSAIN RIZVI, KUNZA ELAHI, (Term Fall'23), Mohammad Ali Jinnah University, Pakistan. **[This work got the 1st Prize in FYP Exhibition/Showcase event].**
2. KASHIF AHMED KHAN, MUHAMMAD MUNIM, MUHAMMAD IZHAN, (Term Spring'24), Mohammad Ali Jinnah University, Pakistan.
3. MUHAMMAD TAYYAB AHMED, AMMAR AHMED, RIZWAN AMIR, (Term Spring'24), Mohammad Ali Jinnah University, Pakistan.
4. SYED AUN ALI, AYESHA JAWAID, ALI AHMED MANGI, (Term Fall'24), Mohammad Ali Jinnah University, Pakistan.

#### **PROFESSIONAL MEMBERSHIPS**

Institute of Electrical and Electronics Engineers (IEEE)

International Association of Engineers (IAENG)

Association for Computing Machinery (ACM)

#### **SKILLS SUMMARY**

**Main Skills:** Cybersecurity and Ethical Hacking, AI and ML Driven SecOps, Networking and Cloud Computing, Program and Product Management

**Languages:** Python, MATLAB, Bash/Shell, C++

**Framework:** Linux (Ubuntu, Kali Linux, Parrot Security), Git, Kaggle, WordPress, Overleaf/LaTeX.

**Simulators:** MATLAB/Simulink, Python, Cisco Packet Tracer, GNS3, EVE-Ng, HFSS, NS3

**Dev Tools:** Jupyter Notebook, VS Code, Eclipse, Microsoft Azure, Google Cloud Platform, Aviatrix Multi cloud

**Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

**General:** MS. Office, All versions of Windows, LINUX.

#### **REFERENCES**

**Prof. Dr. Dato' Mazliham Mohd Su'ud** (PhD Research Supervisor)  
President/CEO, Multimedia University, Malaysia  
[mazliham@mmu.edu.my](mailto:mazliham@mmu.edu.my)

**Dr. Sunder Ali Khowaja** (Research Supervisor & Course Instructor)  
Faculty of Computing, Digital and Data, Technological University Dublin,  
Ireland  
[SunderAli.Khowaja@tudublin.ie](mailto:SunderAli.Khowaja@tudublin.ie)

**Engr. Faheem Anwar** (Work Supervisor & Close Professional Intimacy)  
Country Managing Director, Cisco NetAcad ( Cisco Systems)  
[fahanwar@cisco.com](mailto:fahanwar@cisco.com)