



Ammar Hassan

Nationality: Pakistani **Date of birth:** 29 Jan 1990 **Gender:** Male

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ABOUT ME

Detail-oriented Information Security professional with experience in Computer Networking, Network operations centre management, Cyber security training and pen testing. Passionate about learning new things about Ethical Hacking, IoT security, Blockchains and Cloud computing.

EDUCATION AND TRAINING

Master of Science in Information Security

National University of Science and Technology [Oct 2021 – May 2023]

Address: Sector H-12, 46000 Islamabad (Pakistan)

Website: <https://nust.edu.pk/>

Final grade: CGPA - 4/4

Thesis: Framework for Secure on-chaining of verification data for Integrity preservation in Fog Computing (Implemented using Solidity and Node JS on Ethereum)

Master of Computer Science

Virtual University of Pakistan [Apr 2017 – Oct 2019]

Address: M.A. Jinnah Campus, Defence Road, Off Raiwind Road, 54700 Lahore (Pakistan)

Website: <https://www.vu.edu.pk/>

Final grade: CGPA 3.96/4

Thesis: Building Efficient and Robust Learning Management Systems for e-learning (Php)

Bachelor of Engineering in Telecommunication

National University of Science and Technology [Oct 2008 – Jun 2012]

Address: Sector H-12, Islamabad (Pakistan)

Website: <https://nust.edu.pk/>

Final grade: CGPA 3.6/4

Thesis: Hand Veins recognition system for smart systems (Implemented on FPGA kits with Verilog)

PUBLICATIONS

A. Hassan, W. Iqbal, I. Makhdoom (2023) 'From Trust to Truth: Advancements in Mitigating the Blockchain Oracle Problem', Journal of Network and Computer Applications [Preprint].

A comprehensive analysis of blockchain oracles, which play a crucial role in enabling real-world data integration with blockchain networks. The paper explores the challenges associated with oracles, examines existing solutions, and discusses the implications in various application domains

A. Hassan, I. Makhdoom, W. Iqbal, (2023) 2SDIPF: Secure Server-less Data Integrity Preservation Framework in Computing for Healthcare Applications, Journal of Industrial Information Integration (Under Review)

Proposed a framework for integration of Blockchain and Serverless computing to increase privacy in health-related applications in Fog computing.

DIGITAL SKILLS

Javascript(Nodejs, Expressjs) / Web3 development(Solidity, web3.js, IoTA, Hyperledger Fabric) / Cloud Security (Azure IAM, Microsoft Cloud Defender), / Python(Numpy, Pandas, Tensorflow, Scappy) / Computer Networking (Setting and troubleshooting networks) / Network Pentesting(Burp, Metasploit, Nmap, Ghidra, Wpscan)

CERTIFICATIONS

Cyber Security

1. Certified Ethical Hacker (CEH) Practical - EC Council (2023)
2. Certified Secure Computer User (CSCU) - EC Council (2015)
3. Certified App Sec Practitioner (CAP) - Secops Group (2023)
4. Certified Network Security Practitioner (CAP) - Secops Group (2023)
5. Huawei Certified ICT Associate - Security (HCIA) (2020)

Computer Networking

1. Cisco Certified Networking Technician (CCENT) - (2016)
2. Huawei Certified ICT Professional - R&S (HCIP) - (2020)
3. Huawei Certified ICT Associate - R&S (HCIA) - (2020)

Cloud

1. Huawei Certified ICT Associate - Cloud (HCIA) - (2020)
2. Microsoft Azure Fundamentals - (2023)
3. Microsoft Certified: Security, Compliance, and Identity Fundamentals - (2023)

Misc

1. Microsoft Office Specialist (MOS) - Access

WORK EXPERIENCE

Information Security Trainer

National University of Science and Technology [Dec 2020 – Current]

- Teach Information Security Subjects like vulnerability exploitation, Information system management to bachelor's students.
- Train Students for certifications like CEH, CSCU and Security +.
- Design and teach subjects related to Computer Networking.

LANGUAGE SKILLS

Mother tongue(s): **Urdu**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

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

CREATIVE WORKS

Blogger and Content Creator

[Current]

Loves to write about Cybersecurity, Web3, Blockchain and tips and tricks

Links: <https://cavementech.com/> | <https://hackingplayground.blogspot.com/>