جامعة عجلون الوطنية
Ajloun National University

HUSSAM TARAZI

Jordan, Jerash   h.tarzi@anu.edu.jo   +962782099794

PROFILE

Associate professor of Information Technology with a Ph.D. in Computer Security and 18 years of academic and professional experience.

Hussam is an IT senior, Holds a PhD and masters degree in Information, network and computer security from Oakland university & New York institute of technology (2011) and Jordan university of science and technology, and a bachelor in Software engineering from the Hashemite university in Jordan (2007), ranked second on faculty level and one of the top 10 on Jordan level, Have successfully achieved 40 cyber ethical campaigns against terrorism in 2024 and 2025, worked in both the IT industry and academic domains for around 18 years, was a senior network and technical support administrator at Amman chamber of Industry and worked as an IT instructor and trainer at king saud university and the National Information technology center of Jordan, hold around 25 professional IT and leadership certifications

Currently doing research about malware detection for Industrial control systems and critical infrastructure and machine learning

EDUCATION

◆ **PH.D** – Computer science and informatics / Cybersecurity, Oakland university, Mi, USA 2025
◆ **Master** –Information, Network and computer security, Just & NYIT, Jordan 2011
◆ **Bachelor** – Software engineering, Hashemite university, Zarqa, Jordan 2007

WORK EXPERIENCE

1. Associate professor, Ajloun national university 2025-now
2. graduate teaching and research assistant, Oakland university 2018 – 2025
3. Graduate Teaching assistant, Memorial university, Canada 2016 - 2017
4. IT trainer and lecturer, King saud university, Riyadh, Saudi Arabia 2012 - 2015
5. Senior network and technical support admin, Amman chamber of Industry, Amman, Jordan 2010 – 2012
6. IT Instructor, Sidra training center, Jerash, Jordan 2010 - 2011
7. System analyst and quality assurance, Transition Tech, Amman, Jordan 2008 – 2009
8. IT trainer, National Information technology center of Jordan-knowledge station program, Jordan 2007- 2009
9. Computer technician, Golden Sun training center, Jerash, Jordan 2007 - 2008

Personal Data

Date of birth:01/08/1986
Nationality: Jordan

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SKILLS

Programming languages
Java, C++, C#, SQL, VB.Net, Java script, Python
Platforms & IDE Environments
Familiar with:
PyCharm, WebStorm, MATLAB Simulink, Eclipse, IntelliJ, IBM rational rose, Microsoft: Visual studio, Office 365, Project, publisher, Azure, TFS, SQL Server
Deployment for Teamcenter BMIDE environment
Database queries using MS-SQL server
WordPress

Languages

Arabic, English

TEACHING EXPERIENCE

Visual studio 2019 / 2021
Data structures (Undergraduate and graduate levels)
Introduction to C/C++ programming language and UNIX
Programming in Java
Adobe Photoshop , Computer maintenance
Asp.NET and SQL server
Ethical hacking
COBIT 2019: Foundation & Implementation
Computer programming
Microsoft publisher, project, office 365
Web security
Computer forensics
Machine and deep learning
Web design and development

PROFESSIONAL ACTIVITIES

- Certified ethical hacker and advanced level penetration tester from EC-Council
- Have professional certifications from Lenovo and HP and TryHackMe from Google
- Reviewer for Journals:
- IEEE Access Smart grids and Computerized medical imaging and graphics
- Elsevier Computers & Security
- Conducted a seminar about the Importance of Ai in IT Security: common uses and new technologies at Al-Mustansiriya University, Baghdad, Iraq April 2025
- Contributed to the creation and correction and reviewing of the scientific material, computer skills Book, king saud university, preparatory year, 2013/2014
- Conducted a seminar on Computer security safe practices and procedures at PY deanship in king saud university. December 2013
- Conducted a seminar about Anti-Virus Selection strategy within KAUH at king saud university, September 2013
- Conducted a seminar about Cloud computing and using king Saud university local cloud storage at king saud university, April 2015
- Discovered a serious bug which leads to a vulnerability at the mobile App of a famous vendor 2020
- Discovered a serious bug which leads to a vulnerability at one of the famous booking websites on 2018
- Discovered a bug and a session hijacking vulnerability at one of the organizations website and App

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SKILLS

Operating systems
Maintenance and troubleshooting
Microsoft windows all versions
Administrating and configuring
windows server
2003/2008/2012/2016
Hands-on deployment experience for
Microsoft TFS and domain active
directory, SharePoint
Unix/Linux operating systems
especially Kali, Ubuntu, and red hat
distributions
LAN/WAN/TCP-IP/Wi-Fi network
configuring skills
IT Security tools
Professional security penetration
testing for windows, Linux and web
applications using various tools
Hands-on practice about SE-Linux
services and policies

PROFESSIONAL ACTIVITIES

- Assisted the E-Government of Jordan national project of the ministry of Telecommunications and information technology at Amman chamber of industry side.
- Established connections and attended seminars and workshops for maintaining and support the E-Government domain services and applications for Amman Chamber of Industry.
- CCMS – Computer center management system for Amman chamber of industry.
- Orphan-Care and Dry-clean management systems
- Worked remotely (online) as an "Online map influencer" with Google Company on a per-project task bases (Google Maps) on oDesk (Upwork.com) freelancing website software.
- Worked as a remote Network Technical support engineer with Global Technology Coverage Company, for Some Projects with a client in St. John's, CA

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Publications

- A Watchdog model for Physics-Based anomaly detection in digital substations https://www.sciencedirect.com/science/article/abs/pii/S1874548224000015
- Kernel Parrots: A Proposed approach for defending kernels from rootkits
- Detecting Suppressive Behavior in Protection Relays via Defensive Deception and Machine Learning
- Digital Relays Resilience for Physics-Based Cyber Attacks in Smart Grids : A Survey
- NoLeak-Droid: Testing for Memory Leakage in Android Applications and a model for leak prevention
- Web application penetration testing: Common approaches & tool selection
- IOT middleware security: Challenges and assessment
- The Art of cyber infection
- Power transformer demonical haunt in the new millennium
- Graphic card venom: A new haunt in the darkness
- GOOSE messages timing attacks from a physics-based perspective
- Requirement Discovery As a requirements engineering Process in Software Engineering
- Software Testing of Android Applications: Challenges and Techniques
- Co-authoring:
- Multimodal Sarcasm Detection: A Deep Learning Approach
- https://www.hindawi.com/journals/wcmc/2022/1653696/
- Glaucoma Detection Using Image Processing and Supervised Learning for Classification
- https://europepmc.org/article/med/35273784
- Human-Computer Interaction with Hand Gesture Recognition Using ResNet and MobileNet
- https://www.semanticscholar.org/paper/Human-Computer-Interaction-with-Hand-Gesture-Using-Alnuaim-Zakariah/f6d6983ec329abb517c306f8e434dcf25d4c00a4
- Improved Machine Learning Method for Intracranial tumor Detection with Accelerated Particle Swarm Optimization
- https://www.hindawi.com/journals/jhe/2022/1128217/
- Analysis of Chest X-Ray Images for the Recognition of COVID-19 Symptoms Using CNN
- https://www.hindawi.com/journals/wcmc/2022/3237361/
- AI-DRIVEN novel approach for liver cancer screening and prediction using cascaded fully convolutional neural network
- https://ouci.dntb.gov.ua/en/works/lRjX0WPl/
- Human-Computer Interaction for Recognizing Speech Emotions using Multi-Layer Perceptron Classifier
- https://www.hindawi.com/journals/jhe/2022/6005446/
- Speaker Gender Recognition Based on Deep Neural Networks and ResNet50
- https://www.hindawi.com/journals/wcmc/2022/4444388/
- Human-computer interaction with detection of speaker emotions using convolution neural networks
- https://pubmed.ncbi.nlm.nih.gov/35401731/
- https://downloads.hindawi.com/archive/2022/7463091.pdf