Mohammad Yamen Ayman Hallak

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PERSONAL INFORMATION

Date & Place of Birth:	1993, Damascus, Syria
Sex:	Male
Nationality:	Syrian
Marital Status:	Single

EDUCATION

- **M.Sc. in Information Technology Engineering** *Computer Systems and Networks Engineering Department, Cyber Security,* Damascus University (Damascus, Syria) | 2018 – 2023

- **B.Sc. in Information Technology Engineering** *Computer Systems and Networks Engineering Department,* Damascus University (Damascus, Syria) | 2011 – 2017

WORK EXPERIENCE

- **Teaching Staff Member** | *Syrian Private University (SPU) Faculty of Artificial Intelligence Engineering - Computer Systems and Networks Security Engineering,* July 2025 – Present (Damascus Countryside, Syria).
- **Freelancer – Various Roles** | *Remote / Self-Employed* | *University Teaching, Technical Support, Web Design, and Hosting Management,* August 2020 – July 2025.
- **Product Owner** | *Phoenix,* January 2024 – December 2024 (Ulm, Germany).
- **WordPress Web Designer and Hosting Manager** | *Phoenix,* October 2023 – November 2024 (Ulm, Germany)
- **Teacher Assistant** | *University of Damascus Faculty of Information Technology Engineering,* June 2018 – February 2023 (Damascus, Syria).
- **Networks and Information Security Engineer** | *Public Telecommunications Corporation Study Department,* March 2019 – June 2020 (Damascus, Syria).
- **Freelance Web Developer** | *ASP.NET MVC,* Period of 2018 (Saudi Arabia / Remote).

TRAININGS

- **Skills Development in Information and Communication Technology and its Security** *(Mathematical Encryption, CCNA, GSM, Windows Server, Linux OS, Information and Networks Security),* Public Telecommunications Corporation | June 2019 – March 2020.

SCIENTIFIC PUBLICATIONS

1. Eng. Mohammad Yamen Ayman Hallak, Dr. Ghassan Chaddoud. (2026). Developing a 'Command Injection' Intrusion Detection Rule Using Regular Expressions on Snort and Suricata IDS. *Latakia University. The Sixth Conference for Postgraduate Students in the Field of Engineering Sciences.*

2. Eng. Mohammad Yamen Ayman Hallak. (2023). A Comparative Study of the Behavior of Intrusion Detection Systems in Terms of Receiving, Analyzing and Dropping Network Packets. Latakia University. The Fifth Conference for Postgraduate Students in the Field of Engineering Sciences.

3. Eng. Mohammad Yamen Ayman Hallak. (2023). Case Study of Data Leakage Through Keylogger and Through a Covert Channel in IP Protocol, And the Potential Size of the Leakage. *Damascus University. Journal for the Engineering Sciences.*

4. Eng. Mohammad Yamen Ayman Hallak, Dr. Ghassan Chaddoud, Dr. Ali Hammad. (2022). Evaluation Study on Network Traffic Analysis-Based Tools in Intrusions Detection. *Damascus University. Journal for the Engineering Sciences*.

PROJECTS

- Evaluating IDSs (Intrusions Detection Systems) and discussing methods to improve their performance.
- Detecting intrusions characteristics through network traffic analysis and developing IDS's rules.
- Data leakage through covert channels (Storage and Timing Covert Channels).
- VPN Security Methods (configuring and securing a VPN connection through an IDS and Firewall).
- Setting up a network with the following services: Telnet, SSH, DHCP, Web, Mail and DNS servers with delegation (Master, Slave).
- Mini distributed search engine system using RMI (Remote Method Invocation).
- Private chat system using Socket.
- Network management using Windows Server: adding roles, configuring active directory, setup domain, setup organizational unit, configuring DHCP and DNS and other services, user accounts management, file sharing, configuring group policies and configuring the backup.
- Analyze, design, implement and test the following software applications: "a bank's management system", "e-commerce prototype", "e-tax prototype", "permissions system", "simple manager for student's marks", "employment website", "company portfolio with content management system" and "Graduation projects library".
- Gathering requirements, analyzing, designing, managing the development team, and supervising quality assurance for the "Wasset P" project.
- Creating CMS-based websites: "blog & e-store", "radio station blog", "newspaper blog", "personal website", "clothing e-store", "Phoenix Germany", "Phoenix Experts", "Ulmer Reinigung", "Waseet P", "Fast Waseet P" and "Shopify store with drop shipping".

TECHNOLOGIES, PROGRAMS & TOOLS

- **Programming Languages:** Pascal, Delphi, C, C++, C#, Java, SQL, HTML, JavaScript, CSS, jQuery, Bootstrap Framework.
- **Linux Security & Administration**: Access Control Models (DAC, RBAC, MAC via AppArmor), Advanced Access Control Lists (ACLs), Task Scheduling (cron, at), Process Management & System Optimization.
- **Penetration Testing & Network Security:** Snort IDS, Suricata IDS, Hyperscan, Nessus, OpenVAS, Metasploit, Social-Engineer Toolkit (SET), Wireshark, TCPDump, Nmap, Ncat, Hping3, OWASP ZAP, Nikto, Vega, BTSLab, DVWA, SQLmap, Hydra, Hashcat, John the Ripper, Ptunnel, WPScan, Sublister, Dirbuster, Recon-ng, Macchanger.

- **OSINT & Network Reconnaissance:** Shodan, Whois, Dig, Host, Nslookup, Amass
- **.NET Framework:** Asp.net, Asp.net Core, MVC, Entity Framework, Razor, LinQ.
- **Java Frameworks & Technologies:** J2EE, JSP, JSF, EJB, Servlet, Hibernate, Facelets.
- **Programming Libraries:** C++ (STL, PVM, OpenGL, Winpcap), Java (RMI, TCP/UDP/Multicast Socket, Crypto), C# (.NET Security), OpenSSL.
- **IDEs & Code Editors:** Visual Studio, Visual Studio Code, NetBeans, Eclipse, Notepad++, Sublime Text.
- **CMS & E-Commerce:** WordPress (Themes, Plugins, Widgets, Templates, Elementor, WooCommerce), Shopify Platform.
- **Hosting & Infrastructure:** Bluehost, cPanel, GoDaddy, Contabo.
- **Virtualization & Emulators:** VMWare Workstation, Oracle VM VirtualBox, Cisco Packet Tracer, GNS3.
- **Linux Frameworks & Services:** Bind9, Apache, Dovecot, Postfix, POP3, OpenVPN, UFW, DHCP3, Telnetd, Easy-RSA.
- **Diagramming & Architecture:** Enterprise Architect, StarUML, Draw.io.
- **Advanced Database Operations:** Database Design, ERD Implementation, Stored Functions & Procedures, Indexes, Transactions, Views, and Triggers.

PERSONAL TRAITS

- Academic lecturing and technical communication skills.
- Time management and priority organization.
- Fast learner with high adaptability to new tech stacks.
- High patience and analytical thinking under pressure.

LANGUAGES

- **Arabic:** Mother tongue.
- **English:** Very good (reading, writing), good (speaking, listening).

REFERENCES

- **Ghassan Chaddoud (+963-936885772)**
    1. University Lecturer & Postgraduate Supervisor, Faculty of Information Technology Engineering, Damascus University.
    2. University Lecturer, Faculty of Information Technology Engineering, Arab International University (AIU).

- **Wassim Al-Junaidi (+963-992301728)**
    1. Assistant Professor and Vice Dean, Faculty of Artificial Intelligence Engineering, Syrian Private University.
    2. Assistant Professor and Program Director, Syrian Virtual University.
    3. Assistant Professor, Researcher, and Supervisor, Higher Institute for Applied Sciences and Technology.