Ammar husam al-hasan

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# Professional Summary

Cybersecurity student specializing in **GRC, Risk Assessment, and IT Auditing**, with strong exposure to real-world governance practices and compliance frameworks. Experienced in conducting full risk assessments, simulating internal audits, and aligning technical systems with standards like ISO 27001 and NIST SP 800-53. Demonstrated ability to design audit-ready systems and develop enterprise-level security documentation.

Additionally, I have hands-on experience in SOC operations and incident response, and I actively participate in Capture the Flag (CTF) competitions as both a player and challenge creator. My background also includes cryptography training and curriculum development. I thrive in analytical, policy-driven environments and am passionate about bridging the gap between technical controls and business risk.

EDUCATION

**Applied Science University**, Amman, Jordan Sep 2021 – Sep 2025

Bachelor's degree in Cybersecurity and Cloud Computing

GPA: 75.8 | Rank: 21 / 491

CERTIFICATES

* Cyber Warriors (NCSC)
* Ethical Hacker (The Hope International)
* Oracle Cloud Data Management
* Google Cybersecurity (Coursera)
* EC-Council Certifications: EHE, NDE, DFE
* Cybersecurity Youth Academy for Jordan
* Linux Essentials (NDG / Red Hat)
* Cyber Apocalypse CTF 2023 (Hack The Box)
* Cloud Basics Development and Concepts

# professional experience

**Cyber Kingdom Bootcamp – Applied Science Private University**

July 2025 – August 2025 | Amman, Jordan

* Delivered an **Introduction to Cybersecurity** training session, covering encryption fundamentals from basics to widely used algorithms.
* Contributed as a **writer, organizer, and coordinator** in planning and executing the bootcamp activities.
* Supported the design and organization of a **Capture the Flag (CTF) competition** with **177+ participants** and **78 teams** from across Jordan.
* Focused on **engaging school students and young learners**, inspiring the next generation of cybersecurity enthusiasts.

**Graduation Project – Applied Science University**

Nov 2024 – Jun 2025 | Amman, Jordan

Real-time Detection and Prevention of Malicious PowerShell Commands

* Developed a real-time PowerShell threat prevention system that leverages AI and AMSI integration to intercept and block malicious commands, including AMSI bypass techniques.
* **Released two versions of the system:**
* V1: Command-by-command analysis using GraphCodeBERT (Accuracy: **87.2%**)
* **V2**: Session-level behavioral analysis with sequential modeling (Accuracy: **99.5%**)
* Applied data augmentation to expand the offensive PowerShell dataset; split data as 60% training, 20% validation, 20% testing.
* Integrated AI inference (Python) with low-level system interception (C++, DLL injection) for real-time detection with minimal overhead (CPU <2.5%, RAM <30MB).
* Conducted a **PowerShell Risk Assessment** aligned with **NIST SP 800-30**; threats mapped to **MITRE ATT&CK**.
* Simulated an **internal IT audit** to verify system integrity, auditability, and compliance with **ISO 27001/NIST SP 800-53** controls.
* Designed future integration paths with SIEM, SOAR, and GRC platforms.
* Technologies: (Python, C++, PyTorch, GraphCodeBERT, AMSI API, Windows API, Scikit-learn)

**Cryptography Trainer CTF writer in Applied Science University**

Jan 2024 – Feb 2025 | Amman, Jordan

I ‘m responsible for developing and delivering comprehensive courses on cryptography, aimed at equipping students with essential skills in cybersecurity. My role involves:

* Designing Curriculum: Creating engaging, hands-on lessons that cover core cryptographic concepts, algorithms, encryption methods, and real-world applications.
* Teaching & Mentorship: Guiding students through complex topics, ensuring they understand both theoretical and practical aspects of cryptography.
* Hands-On Labs: Developing practical exercises and lab sessions that allow students to apply cryptographic techniques, analyze security protocols, and solve cryptography-based challenges.
* Collaboration: Working closely with the cybersecurity department to align teaching materials with industry standards and Applied Science University’s academic goals.

**Cybersecurity Youth Academy for Jordan**

May 2024 – Dec 2024 | Amman, Jordan

Training Program from Purdue & PSUT & US Embassy

* Completed an intensive cybersecurity training program jointly designed by **Purdue University** and **Princess Sumaya University for Technology (PSUT)**.
* **Prepared a comprehensive risk assessment framework** at the **Royal Scientific Society** in anticipation of implementing it during **PwC Jordan** job shadowing, identifying key vulnerabilities to improve security posture.
* Gained hands-on experience in **SOC (Security Operations Center)** operations at **Umniah Business Park**, enhancing skills in **incident detection**, **threat response**, and use of **SIEM tools**.
* Designed and hosted **cybersecurity challenges** for the **CyberYouthAcademy CTF**, contributing to the development of beginner-friendly scenarios and advanced tasks.
* Collaborated with peers and industry experts to develop cyber **defense strategies**, increasing proficiency in **ethical hacking**, **vulnerability assessment**, and **threat hunting**.

**Key Achievements**

* Successfully hosted the **CyberYouthAcademy CTF**, which attracted over 50 participants and featured a variety of challenges including **reverse engineering**, **web exploitation**, **OSINT**, **Phishing**, **Cryptography**, **Miscellaneous** and **DFIR**.
* Engaged with the **SOC manager at Umniah** to inquire about detection mechanisms for advanced attacks. This highlighted a gap in current security monitoring, demonstrating my initiative in improving **SOC capabilities**.

# Conferences & Events & Competitions

**ASU CTF v6 2022 – Applied Science University, Amman, Jordan**

Ranked 2nd place

* Secured 2nd place in a highly competitive university-level CTF, demonstrating strong problem-solving and teamwork skills.

**Black Hat MEA 2023 CTF – Riyadh, Saudi Arabia**

Ranked #86 out of 250 teams

* Competed in the official CTF, achieving a rank of #86/250 teams.
* Demonstrated drone security expertise by successfully hacking and controlling a drone during a side challenge.

**AIDTSEC 2023 Conference – Hilton Dead Sea, Jordan**

Ranked 4th in SMT competition

* Invited by **SMT** (specialized in EDR, SOC, and SIEM) to participate in their competition, securing 4th place.
* Attended sessions on cutting-edge military and defense cybersecurity technologies.

**Black Hat MEA Qualification CTF 2024 – Online**

Ranked #124 out of 1,000+ teams

* Solved 9 challenges and scored 1,360 points individually, showcasing proficiency across diverse cybersecurity categories.

**META CTF Qualifiers 2024 – Online**

Ranked 4th place

* Secured 4th place among national competitors, showcasing expertise across diverse cybersecurity categories including web, reverse engineering, and forensics, etc.

**Aliens CTF 2024 – Orange Digital Village, Jordan**

Ranked 3rd place

* Achieved 3rd place with my team **Jordan Shell**, earning recognition from multiple local news outlets.

**0xL4ugh OSINT CTF 2024 – Online**

Ranked 2nd place

* Achieved 2nd place by solving advanced OSINT challenges, demonstrating strong investigative skills and proficiency in open-source intelligence techniques.

**ASU CTF v10 2024 – Applied Science University, Amman, Jordan**

Ranked 1st place

* Secured 1st place in a competitive university CTF simulating real-world attack scenarios.

**ASU CTF v11 & v12 – Applied Science University, Amman, Jordan**

Challenge Writer & Author

* Designed and authored challenges in **Cryptography, OSINT, and Social Engineering** categories.
* Contributed to **challenge creation, review, and validation** for successive CTF events.

# skills

* GRC | Risk Assessment | Compliance Monitoring
* Internal Auditing & Policy Development
* Incident Handling, Analysis & Reporting
* Security Information and Event Management (SIEM)
* Network Security Monitoring (NSM)
* Endpoint Detection & Response (EDR)
* Intrusion Detection & Prevention (IDS/IPS)
* Critical Thinking | Communication | Teamwork | Time Management

# languages

* ENGLISH - Very Good
* ARABIC - Native