Ayham Alhalabi
Cybersecurity Specialist

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Amman, Jordan - Riyadh, Saudi Arabia

Cybersecurity professional and IT enthusiast with a solid foundation in network security, ethical hacking, and digital forensics. Experienced in penetration testing, network infrastructure design, and risk assessment through academic projects and hands-on lab work. Led cybersecurity initiatives, explored a cybersecurity startup concept (ArmorByte), and organized educational events bridging academia and industry. Served as President of the Cybersecurity Club at HTU, where club teams achieved top national (Top 10) and strong International(Top 50) CTF results. Motivated by continuous learning and contributing to more secure digital ecosystems

Work Experience

Founder & Business Developer - Seed Stage
ArmorByte | Amman, Jordan

Jul 2023 - Present

- Developed the ArmorByte cybersecurity concept focused on red teaming, security architecture, and security awareness training.
- Designed business and technical frameworks to align services with emerging cybersecurity market needs.
- Performed competitive analysis and branding to position ArmorByte as a concept-stage cybersecurity solution.
- Strengthened leadership, business development, and communication skills while deepening technical knowledge in security architecture.

Cloud Infrastructure Engineer - Intern
Optimum partners Global | Amman, Jordan

Oct 2025 - 2026

- Played a primary role in maintaining and improving the application deployment process across environments.
- Led day-to-day work on containerizing services with Docker and enhancing CI/CD pipelines to streamline builds, testing, and releases.
- Took the lead on setting up and maintaining monitoring with Grafana and Prometheus, helping to detect and troubleshoot performance or availability issues early.
- Served as a key point of contact for infrastructure tasks, supporting configuration changes, troubleshooting incidents, and collaborating closely with developers to keep services stable.

President – Cybersecurity Club
Al-Hussein technical university | Amman, Jordan

May 2023 - Oct 2023

- Founded and led the university Cybersecurity Club, growing it into one of the leading technical communities on campus.
- Organized national-level cybersecurity workshops, seminars, and Capture the Flag (CTF) events to promote practical skills and security awareness.
- Designed and delivered specialized training sessions in ethical hacking, network defense, and digital forensics for club members.
- Built partnerships with industry professionals to provide mentorship, talks, and learning opportunities.
- Led four club teams that placed in the top 10 nationally at NCSCJO CTF 2023, demonstrating strong technical capability and teamwork.
- Guided the club team to a top 50 regional ranking at Black Hat MEA CTF 2023.
- Helped elevate HTU's cybersecurity presence nationally through collaboration, innovation, and consistent competitive performance.

Projects

Warmaksan Enterprise Security Risk Assessment & Controls Design (Course Project)

- Performed a comprehensive security assessment of Warmaksan's enterprise environment, identifying critical assets (endpoints, network, data center, user/third-party access) using CIA principles.
- Evaluated risks using a qualitative risk matrix (likelihood vs impact) and mapped threats to key assets including branch data, user data, and network security devices.
- Proposed layered technical and organizational controls such as firewalls, VPN, segmentation, encryption, backups, access control, patch management, monitoring, and incident response planning.
- Recommended governance measures such as security awareness training, SLAs with third parties, and regular audits to strengthen long-term security posture.

Data Structures & Algorithms Analysis Project (Min-Priority Queue, Sorting, Shortest Paths)

- Designed a Min-Priority Queue ADT using a sorted linked list, specifying formal definition, core operations (insert, getMin, removeMin), and Big-O time complexity for each.
- Implemented and benchmarked Selection Sort and Merge Sort on arrays up to 500,000 elements (sorted and reverse-sorted), comparing empirical runtimes with theoretical time complexity.
- Simulated Dijkstra's and Bellman-Ford algorithms step-by-step on a weighted graph to derive shortest paths and analyze their operational differences
- Discussed efficiency using both time and space complexity, demonstrating understanding of algorithm scalability and resource trade-offs.

Secure Multi-Site Enterprise Network Design & Implementation (Course Project)

- Designed a secure multi-site enterprise network for JNR, connecting offices in Jordan, Saudi Arabia, and Turkey with VPN/IPSec site-to-site tunnels and a disaster recovery site in Aqaba.
- Implemented layered security controls including ASA firewall with DMZ, port security, DHCP security, SSH hardening, and strong password policies across routers and switches.
- Configured core services (HTTP/HTTPS, FTP, DHCP, DNS) and access control rules to enforce least privilege between VLANs and remote sites.
- Developed and executed a comprehensive test plan for firewalls, VPN, switches, gateways, and servers, validating security controls and documenting results and improvements

Mokafih – AI-Powered Assistant Platform

- Developed Mokafih, an advanced AI-driven digital assistant that reviews communications and flags potentially risky or suspicious content in a lab environment.
- Integrated Mokafih into existing lab workflows to add an extra layer of protection without disrupting user communication.
- Used it to support security operations by highlighting messages with signs of fraud, phishing, or other harmful activity and turning raw streams into actionable insights.

Graduation Project – From Breach to Blueprint

Graduation Project – From Breach to Blueprint
Networks & Cybersecurity | Team Project

• Conducted penetration testing on a live network infrastructure to identify critical security vulnerabilities
• Designed and implemented a secure network redesign with segmentation, DMZs, and controlled transit networks
• Applied security hardening techniques including firewall rules, access control, and encrypted communications
• Simulated attacks and validated mitigations using industry-standard tools
• Produced a full security assessment report with remediation and future enhancement recommendations

Tools & Technologies: GNS3, Firewall (pfSense / Cisco), VLANs, VPN, IDS/IPS, Linux, Networking Protocols

Core Skills

Network and Infrastructure Security, Penetration Testing & Vulnerability Assessment, Red Teaming & Ethical Hacking, Digital Forensics & Incident Response (DFIR), VPN/IPSec, Firewalls (e.g., ASA), VLAN Configuration, Docker & Containerization, CI/CD Pipelines and Deployment Automation, Infrastructure Monitoring (Grafana & Prometheus), Risk Assessment & Security Planning, Leadership, Training, Technical Communication

Education

Al-Ahliyya Amman University   Oct 2023 - Present

Bachelor of Science Networks and Cybersecurity

Languages

Arabic *(Native)*, **English** *(PROFESSIONAL)*, **Russian** *(Beginner)*

Certificates

Jr Penetration Tester
TryHackMe

Web Fundamentals
TryHackMe

Advent of cyber 2023
TryHackMe

Introduction to SOC
Umniah

Elements of AI for Business   Nov 2025
MinnaLearn

Security and Connectivity Support   Jan 2026
Cisco

Introduction to Modern AI   Feb 2026
Cisco