

MUSTAFA ALTAWHEEL

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SUMMARY

Computer Science student at Birzeit University. Currently focusing on cybersecurity and network defense, with hands-on experience in penetration testing tools and networking fundamentals. Proficient in C and Python with a strong interest in network security and penetration testing.

SKILLS

Languages: Java, Python, C, HTML, CSS
Tools: Wireshark, Nmap, Metasploit, Burp Suite, Hydra
Technologies: Git, Linux, Docker, Cisco Packet Tracer, ESP32, Arduino

EXPERIENCE

- 2018 – 2020 **Teaching Assistant — Arduino UNO** [LABOO Academy](#)
Taught basic electronics and embedded systems to youth, covering digital logic, sensors, and microcontroller fundamentals. Delivered hands-on lab sessions and mentored students through practical projects.
- 2025 **Call Center Agent** [Coolnet](#)
Provided technical and customer support, handling client inquiries and troubleshooting connectivity and network-related issues.

PROJECTS

- AI, ML*
Networking, Security **Multi-Agent System For Crisis Management**
Developed the network architecture and communication protocols for a multi-agent system designed to manage crisis situations. Enables autonomous agents to coordinate and share information effectively, improving response times and decision-making during emergencies.
- Python*
REST API **IP Reputation Checker** [🔗](#)
Developed a Python-based REST API that checks the reputation of IP addresses using the AbuseIPDB service. Returns a JSON response containing the reputation score and related information.
- Arduino Nano*
Sensors, C++ **TRM-01** [🔗](#)
Developed a simple ethical Arduino-based device that captures an IR remote signal and replays it on button press.
- Cryptography*
Networking **Duva CLI** [🔗](#)
Created a Python command-line tool that encrypts and decrypts messages using 3 layers of encryption — VPN, TLS, and AES256 — allowing users to securely transmit messages over a network.

RESEARCH

- WSN, IoT*
QoS, Energy **QLEACH-EAS Simulation** [🔗](#)
Simulated the QLEACH-EAS protocol — an energy-aware, QoS-enhanced clustering algorithm for wireless sensor networks. Investigates routing efficiency, energy consumption, and network lifetime optimization in IoT environments.
[DOI: 10.13140/RG.2.2.36348.09607](https://doi.org/10.13140/RG.2.2.36348.09607)

EDUCATION

9/2022 – 6/2027 **Birzeit University** Bachelor
Computer Science

CERTIFICATIONS

In Progress **CompTIA**
Security+

LANGUAGES

Arabic - Native, English - B2

