Abdallah Hamdan

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PROFILE SUMMARY

Highly motivated Computer Engineering student with strong academic standing (GPA 4.0/4.0) and a passion for cybersecurity, embedded systems, AI experimentation, and software development. Experienced in hands-on course projects involving ethical hacking, machine learning, IoT systems, and network design. Skilled in problem-solving, researching complex technical topics, and building practical systems using modern tools and technologies. Continuously expanding technical expertise through advanced online training.

EDUCATION

Bachelor of Engineering in Computer Engineering

Beirut Arab University (BAU), Dibbiyeh, Lebanon

Sept 2021 – June 2026

Current GPA: 4.0/4.0

PROFESSIONAL EXPERIENCE

High Speed Networks Company – *IT Department*   September 2024 – October 2025

- Performed diagnostics and resolution of technical issues involving operating systems, network connectivity, and software failures.

- Assisted with the configuration and deployment of computers, routers, and internal systems.

- Participated in network monitoring, vulnerability checks, and basic security enforcement.

- Documented incidents, maintained inventory, and improved support efficiency through ticket tracking.

TECHNICAL SKILLS

-Programming & Tools:

Python, C, C++, Java, SQL, JavaScript (Basic), GitHub, Linux CLI, VirtualBox, Wireshark

-Security & Networking:

Port Scanning, Vulnerability Exploitation, Phishing Simulation, Packet Sniffing, Firewall Rules

-Tools & Platforms:
Raspberry Pi, ESP32 (Basic), Arduino, MQTT Protocol, Nmap, Metasploit (training), VMware, Coursera

PROJECT EXPERIENCE

Ethical Intrusion Simulation - *Cybersecurity*
- Simulated a real-world phishing attack on VMware virtual machine
- Delivered a deceptive email containing an executable payload.
- Achieved root-level access through exploitation and backdoor techniques.

Smart Recycling Bin – *Embedded Systems Project*
- Built an intelligent recycling system using Raspberry Pi and ESP32.
- Implemented object detection with a camera and Python script to identify waste items.
- Sent object classification data via MQTT to the ESP32 and to a Telegram chatbot for user notifications.
- Integrated an ultrasonic sensor to monitor bin fill-level; triggered automatic chatbot alerts when full.

Insurance Expenses Prediction Tool– *AI & Machine Learning Project*
- Built a machine learning-based prediction tool to forecast annual insurance expenses based on individual features such as age, sex, and smoking status.
- Trained the model using linear regression on a large dataset to predict outcomes for new data inputs.
- Applied data preprocessing, feature encoding, supervised learning techniques, and model evaluation using Python libraries (pandas, scikit-learn).
- Evaluated model performance and optimized predictions through metrics such as mean squared error.

Enterprise Network Design and Security Implementation– *Computer Networks Project*
- Designed a complex network topology using **Cisco Packet Tracer**, simulating a real-world setup with multiple **VLANs, WANs, routers, and switches.**
- Configured IP addressing schemes and routing protocols to enable communication across diverse network segments.
- Applied Access Control Lists (ACLs) to implement firewall rules and restrict access based on security policies.
- Demonstrated secure and efficient network segmentation with layered access control.

"Triple A" Website (E-Commerce Platform for Car Sales)– *Database Project*
- Developed a full-featured e-commerce web application for car sales called **Triple A**, using **MySQL** as the database engine and managed via **XAMPP**.
- Designed a relational database with interconnected tables for users, cars, and transactions, ensuring data integrity and scalability.
- Implemented secure user authentication with hashed passwords, linked to the user profile and purchase history.
- Established relationships between user accounts and available cars; each purchase action generated an entry in a dedicated transactions table capturing all order details.
- Ensured proper use of SQL joins, constraints, and indexing for performance and data consistency.

University Student Guide Chatbot– Software Engineering Project
- Designed and implemented a web-based chatbot to assist new students at the university by answering common questions.
- The chatbot provided information such as professors' email addresses, office hours, and administrative contacts in real time.
- Built the website using web technologies (HTML, CSS, JavaScript, and backend scripting) to deliver an interactive and helpful onboarding experience for students.
- Focused on usability and accessibility to ensure all students could easily find the information they needed through natural language interaction.

Certifications

- Intro to Cybersecurity Tools and Attacks – **IBM**
- Operating Systems Overview, Admin & Security – **IBM**
- Ethical Hacking Essentials – **EC-Council**
- Generative AI for Cybersecurity and Privacy for Leaders – **Vanderbilt University**
- Introduction to Python in Cybersecurity – **Infosec**
- Python for Active Defense – **Infosec**
- Introduction to AI for Cybersecurity – **Johns Hopkins University**
- Cybersecurity Compliance Framework, Standards & Regulations – **IBM**
- Computer Networks and Network Security – **IBM**
- Securing AI and Advanced Topics – **Johns Hopkins University**
- Certified Cloud Security Professional (CCSP) – **Infosec**
- Next-Generation Firewalls and Intrusion Prevention- **LearnQuest**
- Advanced Threat Hunting and Incident Response- **LearnQuest**