

Reem Chaaban

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Education

Wellspring Learning Community | International Baccalaureate (IB) Bilingual Diploma
American University of Beirut | BEng in Computer and Communications Engineering

- Focus areas: Artificial Intelligence and Cybersecurity

Graduated May 2021
Sep 2021 – May 2025

Experience

BMB Group | Cybersecurity Consultancy Internship

June 2024 – August 2024

- Researched core networking principles through **CCNA** training and **Cisco Packet Tracer** labs
- Explored cybersecurity concepts through **Fortinet FCF**: CIA triad, AAA protocols, modern threat models
- Configured a **Palo Alto Next-Generation Firewall** (PA-850) using **routed** and **inline** deployment modes
- Delivered a technical presentation on **microservices**, covering structure, benefits, and real-world use cases
- Utilized **Splunk** to analyze Microsoft AD logs and create custom dashboards for security threat visualization

Projects

ML Full-Stack Platform ([GitHub](#))

- Trained **recommendation** and **regression** models on synthetically-generated data
- Built a **Flask** backend to serve model predictions via **REST APIs**
- Built **Streamlit** frontend for interactive inputs and visualizations
- Containerized models and backend with **Docker** and deployed to the cloud
- **Technologies**: Flask, Docker, Streamlit, Hugging Face, Prometheus, Grafana, MLflow, Railway

Cellular Data Transportation Mode Detection (Abdallah Darwishe Award)

- Developed **classification models** to identify **transportation modes** using cellular signal data from Sussex-Huawei Locomotion & MOBiSENSE datasets
- Applied **Differential Privacy** and **Federated Learning** to preserve user confidentiality
- Conducted project in collaboration with KAUST and MOBiSENSE

Custom Intrusion Detection System Development ([GitHub](#))

- Built a custom hybrid (passive & active) **intrusion detection system** to detect network attacks
- Implemented Python scripts for attacks (HTTP flooding, SSH brute-force etc.) and detection by utilizing **Scapy**
- Parsed & evaluated logs against **Snort** using precision, recall, and F1-score metrics

Object Detection with YOLOv8 ([GitHub](#))

- Built a **YOLOv8** object detection model based on 12 classes of grocery items
- Validated accuracy of object classification and bounding boxes

Skills

ML & AI | Privacy-Preserving ML | Hyperparameter Tuning | Computer Vision | Recommender Systems
Cybersecurity | Kali Linux | IDS & IPS | Firewall Configuration | Network Scanning
Communications | Digital Signal Processing | IIR filter design | GRAND/ORBGRAND Decoding
Programming | Python | MATLAB | Git | VHDL | C++
Certifications | Amazon WIE Industry Program Bootcamp Participation (June 2023)
Languages | English (fluent) | Arabic (native)