SERENA HAIDAR

Computer and Communications Engineer

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SUMMARY

Highly motivated fourth-year **Computer and Communications Engineering** student with a strong foundation in **software development, networks, and artificial intelligence**. Passionate about leveraging **machine learning, cloud technologies, and business intelligence** to develop innovative solutions. Quick learner with hands-on experience in **data science, databases, and front-end web development**. Fluent in **Arabic, English, and French**.

SKILLS

Programming & Development — Python, Java, C++, HTML, CSS, JavaScript, php, Flask, Docker, OOP, DSA

Data Science & Machine Learning — Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras

Databases — XAMPP, MySQL (Database Design & Querying)

Networking — Routing & Switching, Packet Tracer, Network Administration under Linux, Client-Server Computing

EDUCATION

BE, Computer and Communication Engineering   Oct 2021 – Jun 2026
Islamic University of Lebanon | Expected Graduation: June 2026
- Grade Average: 90.35 /100 (French System).
- Ranked 1st out of all students university-wide (Dean's Honor List, 2023–2024)

EXPERIENCE

Biodegradable Waste Classification Project ✎   Jan 2025
Deep Learning Project | Sustainability & AI
- **Built** a CNN model with **93.4% accuracy** to classify waste as biodegradable or not.
- **Enhanced** sorting efficiency with **8-category classification**.
- **Optimized** data preprocessing, cutting processing time by **40%**.
- **Deployed** a real-time classification app using **Flask API** and containerized using **Docker**.
Tech: Python, TensorFlow/Keras, Flask, Docker

Water Potability Prediction Project ✎   Nov 2024
Machine Learning Project | Data Science & AI for Public Health
- **Performed** comprehensive EDA and preprocessing on a water potability dataset (10+ features).
- **Trained** and **fine-tuned** multiple models, improving accuracy by **15%**.
- **Deployed** the model via **Flask** and **Docker**, enabling real-time predictions and scalability.
Tech: Python, Scikit-learn, XGBoost, Flask, Docker

Software Engineering Intern   Jul 2024 – Sep 2024
Summer Training Project
- **Developed** a **full-stack** library management system using **Java, Java Swing, and MySQL.**
- **Designed** and implemented **system analysis diagrams,** ensuring clear system architecture.
- **Ensured** code readability by adding **clear comments** for future maintenance and team collaboration.
- **Created** detailed project **documentation** (technical reports, a presentation, and project posters).

COURSES AND BADGES

Machine Learning Zoomcamp ✎
DataTalks.Club ✎

Linux Unhatched ✎
Cisco

Networking Basics ✎
Cisco

Data Analysis with Excel ✎
Kubicle

Supervised Machine Learning: Regression and Classification ✎
DeepLearning.AI

Software Engineer Intern ✎
HackerRank

Introduction to Generative AI Learning Path ✎
Google Cloud Skills Boost

Data Cleaning ✎
Kaggle

Problem Solving ✎
HackerRank

AWS Machine Learning Fundamentals Nanodegree(in progress) ✎
Udacity

Youth Wellbeing, Innovation & Green Skills Program
INJAZ Lebanon