

# Houssein Rachini

 Houssein Rachini |  hhr10@mail.aub.edu |  +961 76714490

## EDUCATION

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**American University of Beirut** Beirut, Lebanon 09/20 - present

BE in Computer & Communications Engineering

Awarded the MasterCard Foundation Scholars  
Program scholarship at AUB

## RELEVANT COURSEWORK

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Data Structures & Algorithms using **C++**  
OOP & Effective **Java** Programming  
Software Engineering (**Django**)

Design & Analysis of Algorithms  
Computer Organization (**RISC-V**)  
Web, Mobile & and App Development

## PROJECTS

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### Basketball Management System (In progress)

Designing and Developing (using **Django**) a comprehensive basketball management system for tracking players registration, schedules, communication, and payments for basketball clubs.

### Lung AI

Developing a DL-based Computer Vision Model that detects pneumonia from chest X-Ray scans.

### Exchange Rate Tracker

Designed and developed a multi-platform Exchange Rate Tracker. This platform allows users to check current exchange rates, track past transactions, and add new transactions. Used **React JS** for the website, **Kotlin** for the Android app, and **JavaFX** for the desktop app, with **Flask** for the backend and **MySQL** as the DBMS.

### Chatting Application

Designed and implemented, in a team of 4, a chatting application using **Socket Programming in Python**. The application uses RDT 3.0 protocol for chatting and TCP for sending files.

## TECHNICAL SKILLS

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**PL and frameworks:** C++, Python, Java, Kotlin, JavaFX, React JS, Django, OpenCV.

**Tools:** Eclipse, Spyder, VS Code, MySQL, Ubuntu, Arduino, L<sup>A</sup>T<sub>E</sub>X.

## EXTRACURRICULAR ACTIVITIES

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**Certificates:  
and Workshops** **ZAKA AI Bootcamp** 02/23 - 03/23  
4 weeks intensive bootcamp that covered the topics of AI, Data Science, ML & DL,  
NLP & Time-Series Analysis.

**Conflict Resolution ; Gender Analysis Framework (GAF):**  
Workshops with CCECS at AUB

**Volunteering:** **H4TF Program with AIESEC:** 01/23  
Case study: redesigned the webpage of an NGO (Banin's Organization)

**MMKN Organization:** 10/21 - 05/22  
Class Coordinator in MMKN UESP 2021

## LANGUAGES

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**English:** Fluent | **French:** Fluent | **Arabic:** Native