

SALMA ABOU SAID

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PROJECTS

AUG 2024 – MAY 2025 *Final Year Project: A Smart Wardrobe Assistant*

In this project, we developed a personalized recommendation system for fashion items, tailored to users' age, preferences, and current trends. The system uses an efficient retrieval-based recommendation model that selects items from a precomputed pool rather than generating each time, which significantly improves performance.

JAN 2024- MAR 2024 *Vertically Integrated Projects Program (VIPP)*

I joined this project and assisted to the development of an AI-based application by supporting various stages of the project lifecycle. My responsibilities included conducting competitive analysis, collaborating on UI/UX design, and helping define user and problem requirements. Project description can be found at

<https://www.aub.edu.lb/msfea/verticalintegratedprojects/projects-details.html?id=19>

DEC 2023

A First Step for Developing Obstacle Maneuvering using Reinforcement Learning and CNN in Flappy Bird

In this project, we developed an AI model to play flappy bird and discussed the development of obstacle maneuvering system for autonomous vehicles. CNNs and Reinforcement learning were used to train the agent to navigate dynamically through the obstacles.

EXPERIENCE

RESEARCH ASSISTANT INTERNSHIP IN ALGORITHMS

Mentored by Prof. Saad Mneimneh | City University of New York

May 2024 - August 2024

- Assisted with creating an algorithm that achieved better time complexity under certain assumptions of the input
- Worked on understanding 3SUM hardness and 3SUM indexing to understand the complexity bounds of our problem
- Implemented the algorithm in python along with a game that uses the results that we got

FRONTEND WEB DEVELOPMENT – AUB OUTLOOK NEWSPAPER

IT and Web Development Team | American University of Beirut

- Developed a NEXTJS and Tailwind frontend with a cross-functional team for AUB Outlook newspaper

EDUCATION

AUG 2021- JUNE 2025

BE in Computer and Communications Engineering
Minor in Mathematics

American University of Beirut

AWARDS

APRIL 2025 – 1st place winners of the AUB Quantum Computing Hackathon

JAN 2025, MAY 2025 – Dean's Honor List

CERTIFICATIONS

OCT 2023 – DataCamp

Supervised learning Scikit-Learn

Machine Learning with Tree-Based Models in Python

Introduction to Deep Learning in Python

PROGRAMMING LANGUAGES

Python, C++, C, Java,
HTML, CSS, JavaScript,
and MATLAB

LANGUAGES

English – Fluent
Arabic – Fluent

EXTRACURRICULARS AND VOLUNTEERING

Quantum Club / Cabinet

IEEE AUB/ SUBCABINET

MMKN organization math tutor volunteer (Summer 2023)

Programming tutor volunteer (AUG 2024)

RELEVANT COURSEWORK

Software Engineering, Computer Networks, Intro to Machine Learning, Intro to Quantum Computing, and Final Year Project