

Joseph Abboud

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Professional Summary

Highly motivated Computer Science undergraduate with hands-on experience in AI, machine learning, web development, desktop application development, robotics, Linux, networking and cryptography. Demonstrated ability to deliver academic and practical projects using modern programming languages and frameworks. Strong problem-solving skills and collaborative mindset with leadership experience in youth and social projects.

Technical Skills

Languages: Java, C++, C#, Python, mySQL, JavaScript, PHP, HTML, CSS.

Other Skills: Jupyter Notebook, Visual Studio, Ubuntu Linux, Microcomputer maintenance, Basic Networking, Cryptography.

Academic Projects

- Senior Project School management system website application (Full-Stack) – Developed a python-based web application with db.sqlite3, and Django for a local school. Implemented HTML, CSS, and JavaScript knowledge in order to complete the front-end development.
- Machine learning comparative analysis project – Developed and compared K-nearest neighbors regressor and Decision tree regressor to predict the performance index of students using a public Kaggle dataset of 10,001 records. Engineered features and preprocessed data by handling missing and null values. Evaluated and visualized both models using mean squared error, mean absolute error, and R2 score.
- C# .NET framework Habits and wellness Tracker application – Developed a console application for tracking daily habits, achievements, and goals. Utilized written queries to manage the connection between the database in SQL server management studio and the application in visual studio.
- Online E-commerce website application (Full-Stack) – Implemented HTML, CSS, JavaScript knowledge to develop the front-end, and utilized basic skills of PHP, XAMPP for the back-end.
- Software engineering for the E-commerce platform (in parallel with the website) – Functional vs Non-Functional Requirements, Context diagram, Data flow diagram, use case diagram, use case narrative, and Graphical user interface (GUI).
- Smart parking system Robotics Project – Developed a C++ code on Tinkercad to build a smart automated parking system, using ARDUINO UNO BOARD.
- Blood bank system database Project – Developed a full database project using mySQL to manage the flow of data in a blood bank system.
- Quantum Computing – Research-based analysis about quantum computers and their implementations in today's world.

Education

Bachelor of Science in Computer Science – GPA: 3.3

Lebanese International University – Bekaa, Lebanon | Expected graduation date: January 2026

Relevant Coursework: Machine learning, Operating Systems, Artificial Intelligence, Data Structures & Algorithms, Database, Systems Programming, Computer Networking (CISCO 1 & 2), Robotics, Software Engineering, Visual Programming, Microcomputer Support, Calculus I & II, Probability & Statistics.

High School Diploma

Official School of Saghbine – Saghbine, Bekaa

Professional Experience

Data analyst -Local election Committee | May 2025

Analyzed and tracked real-time election data; improved reporting accuracy and transparency. Utilized Excel to clean visualize data.

IT & Representative – Center for Educational Research & Development (PISA 2025) | April–May 2025

Supported PISA assessments and managed technical setup at the national level.

Research development Intern (R&D) - Inkript | August 2023 – October 2023

Streamlined project workflows (Jira, Trello, confluence). Utilized automation and had an overview look over the Software business analysis (Workflows, charts, user stories). Depth of research on the application of Blockchain technology in the telecommunication sector, and banks (contributed to Inkript's ability to offer blockchain solution to the Lebanese government).

Leadership & Volunteering

Team Leader – Order of Malta Lebanon | June 2019 to Present

Led Elderly's and disabled programs, budget study and sustainability of projects, logistics, and special guest camps.

International Volunteer – Lourdes Trip (Order of Malta), France | May 2025

Provided care and assistance to people with special needs during an international pilgrimage.

Group Leader – Scouts du Liban, Kherbet Kanafar | 2016 to 2018

Organized and led group camping, team activities, and decision-making exercises.

Certification

Cisco Networking academy – CCNA1 Course completion certificate

Arizona State university English proficiency test certificate – Grade 47/50

Languages

Arabic (Native), English (Fluent), French (Fluent), Spanish (Beginner)