

# Ali Abdallah

## Junior Software Engineer

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Hardworking bachelor's degree computer science student passionate to try new things, have a strong knowledge in OOP, Data Structures, Algorithms, Design Patterns and Databases, interested in Data Science and Machine Learning.

## Education

Senior Undergraduate Computer and Information Sciences student at Ain Shams University. October 2020 - Present  
*Cairo, Egypt*

## Experience

**Computer Vision Summer Training** August 2023 - September 2023


Offered by ApplAi  at Ain Shams University.

Duration: 4 weeks.

Description: We studied introduction to Deep learning, fundamentals of CNN, CNN architecture, Object Detection and Object Segmentation. I got 1<sup>st</sup> place in 3 of 5 Kaggle competitions and my completion project was in the top 10.

For more information , the Completion Project  and the certificate .

**Machine Learning Workshop** February 2023 - February 2023

Offered by ApplAi  at Ain Shams University.


Duration: 2 weeks.

Description: Basics of machine learning and a completion project. Here is the Project and the certificate .

**Blockchain Developer Intern** August 2022 - September 2022

Offered by NEAR Arabic and powered by NEAR Foundation .

Duration: 2 months.

Description: During this internship, I received comprehensive training in developing decentralized applications on the NEAR Blockchain. The program encompassed extensive research in blockchain industry topics, followed by hands-on experience in building decentralized applications alongside a teammate. I gained proficiency in smart contract development, optimizing transactions, and ensuring data integrity within the NEAR Blockchain ecosystem. See the certificate .

## Projects

**ElectroHub – Online Electronics Shopping System**  November 2023 - December 2023

Developed during the Design Patterns Course at Ain Shams University.

ElectroHub is comprehensive online electronics shopping system, showcasing my proficiency in Java, JDBC, Servlet, JSP, HTML, CSS, JavaScript, Bootstrap, and MySQL. Leveraging design patterns like Singleton, Factory, and Strategy, the project exemplifies advanced software design principles.

**English Sign Language Recognition**  August 2023 - September 2023

Using Landmark detection technique and CNN model I was able to build 2 models that can detect and classify the English sign language. I used the landmark technique with Random Forrest model to deploy the application at the end with 99 % test accuracy.

**Data Security Algorithms**  February 2023 - May 2023


Implementation of 15 algorithms in C#, including AES, DES, Playfair, and others. We conducted tests to validate their functionality.

**Smoking Detection**  April 2023 - May 2023

The Data Analytics project in it we perform data analysis on bio-signals dataset to detect and monitor smoking behavior using machine learning classification models.

## Spam Detection

April 2023 - April 2023

A website  that you can predict through if a message is spam or not.

## Loan Prediction

February 2023 - February 2023

This project aims to predict if the loan will be accepted or not. Implemented by Jupyter notebook in Python.

## FOS

October 2022 - January 2023

FOS is a simple operating system implemented in C.

## Customer Segmentation

November 2022 - December 2022

Implemented a customer segmentation analysis project using R, leveraging techniques such as k-means, DBSCAN, and hierarchical clustering. Cleaned and preprocessed data conducted exploratory data analysis, and visualized results through various plots and charts. Developed valuable insights for business strategy during the Statistical Inference course at the college.

## Mini Wasalni

April 2022 - June 2022

C++ program that allows the user to enter the graph "map" which representing the towns then find him the shortest path to reach his destination from any given source town.

## Skills

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|----------------------------|---------------------------|---------------------|
| ● Problem Solving          | ● Data Analysis           | ● Python            |
| ● OOP                      | ● Statistical Analysis    | ● R                 |
| ● Data Structure by C++    | ● Data Visualization      | ● Operating Systems |
| ● System Design Principles | ● Data Mining             | ● Git               |
| ● SQL, SQL Lite & MongoDB  | ● Machine & Deep Learning | ● Bash              |
| ● Data Security in C#      | ● NLP                     | ● Microsoft Office  |