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 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
Software engineering scholarship student at ALX Africa ↗ and Holberton school.	February 2023 - Present

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 1st 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 ↗.

Software Testing Summer Training · August 2021 - September 2021
Offered by Support Club ↗ at Ain Shams University.
Duration: 4 weeks.
Description: The training covered theoretical aspects of software testing. Here is the certificate of completion ↗.

Web Development Summer Training · August 2021 - September 2021
Offered by Ain Shams University.
Duration: 3 weeks.
Description: Fundamentals of front-end track in web development. Here is the completion project ↗.

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.

Supply Chain Analysis and Sales Visualizations ⬜   November 2023 - December 2023

Developed a comprehensive supply chain analysis and sales visualization tool using R and Shiny during the Information Visualization course at FCIS-ASU. Applied tidy data visualizations and processing, created an interactive Shiny web app with dynamic plotly visualizations, and implemented dark mode functionality. Demonstrates proficiency in R programming, data analysis, and web application development.

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.

Verified Profile ⬜   September 2022 - September 2022

This project was about verifying the identity of anyone would get into a blockchain community using blockchain technology. It has 2 parts; the first part is the backend side implemented in AssemblyScript and the second part is the frontend side implemented in React.js in NEAR environment. See the certificate ⬐.

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. It was a teamwork; my task was making Dijkstra and SPFA algorithms.

Skills

- Problem Solving
- OOP by Java
- Data Structure by C++
- C#
- Databases
- SQL
- Data Analysis
- Statistical Analysis

- Data Visualization
- Data Mining
- Microsoft Office
- Data Security in C#
- Python
- R
- Machine Learning
- HTML5

- CSS
- JavaScript
- Assembly Script
- Operating Systems
- Git
- Bash
- Emacs
- Vim