

# Abdelrahman Mohamed

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## Education

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**Cairo University**  
B.S Computer Science

September 2020 - Jun 2024  
Cumulative GPA: 3.18/4.0

## Experience

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- Applying Design Patterns to Projects written.
- Design, code, test, analyze, evaluate, debug and document application programs in Java, c++, php, js, python.
- Maintain and enhance existing code and database schemas.
- Experience in: Web Development, SQL, OOP, Design Patterns, SOLID principles, Data Structure and Algorithms.
- Good dealing with APIs (Restful API).
- I am seeking to develop my experience and knowledge in software and competitive programming.
- Experience with continuous integration tools, like GIT (github)

## Independent Projects

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### **Fawry System(phase1 , phase2)**

- Applied design patterns and SOLID principles in this project using java.
- Applied develop web services and APIs (test APIs by postman).
- A service to check if the user exists or not. This service returns all user info if exists Input: email and password.

### **Library database**

- Applied concepts of database (Characteristic of Relations, Types of DB constraints, SQL, ERD, EER, Applying Database Normalization).
- Software Application using c# programming language.
- Built a database using **MySQL**.

### **Online Shopping System**

- Applied OOP principles using c++.
- Seller can print his info, add item, sell an item, print an items, find an item by ID.

### **Data Structures implementation**

- Build data structures implementation using c++;

## Extra-Curriculars

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- Contestant at International Collegiate Programming contest 2021,2022.
- Solved 700+ problems combined on Algorithms & Data Structures in C++.