Mahmoud **Ahmed**

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Education

Faculty of Computers and Artificial Intelligence, Cairo University *Giza, Egypt*

Sep 2016 - Jun 2021

- **Relevant Coursework**: Fundamentals of Computer Sciences, Programming-1, Programming-2, Mathematics-1, Mathematics-2, Mathematics-3, Discrete Mathematics, Probability and Statistics-1, Probability and Statistics-2, Logic Design, Data Structure, Computer Networks-1, File Organization and Processing, Database Systems-1, Software Engineering-1, Operating Systems-1, Multimedia, Internet Technology.

Skills

Programming Languages	C++, Java, PHP, JavaScript, Python (Familiar).
Object Oriented Programming	Very Good knowledge of many OOP concepts and design patterns.
Data Structures and Algorithms	Strong knowledge of many data structures and algorithms.
Problem Solving	Solved +200 programming problems on different online judges.
Technologies	Web development(HTML, CSS, JSON, REST API, Ajax), MySQL, Git, Familiar with (Node.js, MongoDB).

Experience

Upwork *Egypt*

Backend developer *July 2017 - PRESENT*

- Create and developed the business logic and API services of 5 projects in PHP & 3 in C++
- Built a full-stack web app and launched to 200 users in PHP.
- Developed a tool to encrypt and decrypt text using C++.

Selected Projects

Website Builder *July 2019*

[PHP MVC, MySQL, JavaScript, Google Maps API, PayPal Integration, HTML5, CSS3] *Team of 5*

- A web platform. It allows stores or restaurants to create HTML5 websites through the use of dashboard tools and It allows customers to find the nearest store.

HTTP Server *Apr 2019*

[Java, OOP, Socket Programming, Multithreading] *Team of 5*

- HTTP server that responds to a browser's requests such as GET, POST, PUT, and DELETE.

Apps vs. Zombies Game *Jan 2020*

[C++, SFML, OOP] *Individual*

- A 2D game in which social media site has to survive waves of Zombies, Used a Trigonometric functions to rotate the player and set rotation of objects.

Vector Quantization Image Compression *Dec 2019*

[Java, OOP, File handling, Image Compression] *Team of 3*

- A Java program that implements Vector Quantization LBG Algorithm on grayscale RAW images.

Movie Recommendation System *Feb 2020*

[Python, Numpy, Pandas, Scipy] *Individual*

- A Item based Collaborative Filtering machine learning recommending system build with cosine similarities.

Activities

Software Engineering Students Support	1 of 4 students to mentor +300 students of the previous generation of my computer science college with supervisor Dr El Ramly to improve their skill of software engineering.
Vodafone 010 Innovation Hackathon	Participant in Vodafone 010 Innovation Hackathon which is a Chrome extension that gives you points by watching ads to be replaced by money.
Mshlwahdk.com	Volunteer at psychological support initiative to help +350k persons online.
ACM-CU community	Attended a 3 months Competitive-Programming-based training held by ACM-CU community.
Online Courses	C++ programming, C++ Game Programming, AWS concepts