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Peter Safwat
Software Engineer

SUMMARY

I'm +3 years experience Software Engineer, I start coding when I was 13, programming is more than a job for me it is a hobby. I'm a self-motivated, creative, problem-solver, and determined Engineer. my objective is to contribute more to the open-source community.

WORK EXPERIENCE

Software Engineer   2018-present
Bee Interactives., Full-time

- Developing and directing software system validation and testing methods.
- Analyzing data to effectively coordinate the installation of new systems or the modification of existing systems.
- Managing the software development lifecycle.
- Developing and executing project plans.
- Applying mathematics and statistics to problem-solving initiatives.
- Applying best practices and standard operating procedures.

Backend Developer   2017-2018
Egyadv., Full-time

- Main focus on coding and debugging
- Build high-quality reusable code that can be used in the future
- Develop functional and sustainable web applications with clean codes
- Define and communicate technical and design requirements
- Collaborate with Front-end developers

Programming Instructor   2017-2018
Pharaonic Technology Systems., Part-time

- Provide hands-on instruction and practical training in Java, Python, and Arduino.
- Teach courses from beginner level to advance.
- Create instructional materials

EDUCATION

BCS. Faculty of computer and artificial intelligence   2016-2020
Cairo University

- Major - Computer science
- Minor - Information systems

SKILLS

Languages	Arabic (mother tongue) English (professional)
Programming Languages	Python, JavaScript, C#, C++, PHP, Java
Databases	MySql, postgresql, mongodb, Redis
Frameworks	Laravel, Reactjs, Angular, Django, express, Ruby on Rails

PROJECTS

World Youth Forum

A System that helped the WYF organizers filter and validate all the candidates for the Forum, with a very large database operation we overcome many performance challenges

Orange sonetelhaya

A Video Generator, I Worked in this project as a full-stack,

- creating the frontend using react
- in order to preview the video in a short time we used Lottie.js.
- and we recorded the video using node.js, puppeteer, and FFmpeg.
- we used WebSockets to give realtime feedback to the user.

Bznsbuilder

Worked in frontend

Dijkstra Visualization

An Interactive Dijkstra Algorithm Visualization tool using react and vis.js. visualize the solution of max flow problem and shortest path

Picks courier

picks courier is a start-up based in Cairo, Egypt. it offers delivery solutions to individuals, SMEs, and corporates. We own and manage a highly professional courier network through an innovative business model.

Game Ai

An Ai For a searching game it uses prolog to make a tree of the game states. it also has an interactive UI for setting the initial state of the game and show the solution.

C Lexical Analyzer

Python Lexical Analyzer for c syntax. it uses the magic of regex to identify the syntax and categorize them.

Music Player

Web Music Player Using nextjs and Napster Apis.

KingsMen

An Express.js Cloths shop Web app with MongoDB database

Vector quantization

Java Implementation for the Vector quantization Compress Algorithm.

Fuzzy ToolBox
Fuzzy Logic Implementation in Python with a graph plotter

Adaptive huffman coding
Java Implementation for Adaptive Huffman Compression Algorithm.

smooth curve fitting
Python genetic algorithm used to fit a curve giving some points and graph them.

Knapsack genetic algorithm
Solving the Knapsack problem using genatic algorithm.

Tic tac toe Game
Reactjs Tic Tac Toe Game

Calculating pi by collisions
A Visualization for calculating the digits of pi using elastic collisions between two objects of different masses and a wall. Let me explain with this diagram.

CryptoMail
Secure nodejs Mail server implemented using blockchain with peer to peer architecture.

OPEN SOURCE PACKAGES

DyForm
An Open source Laravel package to help create dynamic forms with high-performance insert and retrieve operations.

Completeness Checker
An Open source Laravel package to help track the completeness of an entity, it calculate how many fields the user has filled and it generates a percentage of completeness.

Swaggerator
An Open source Laravel package to help Developers document their APIS With a bunch of easy commands.

JoQueryGenerator
An open-source laravel package to help optimizing data tables query. with the help of the Clovis addon it joins table conditionally.

Html Extractor
Nodejs tool for extracting html ,js ,css files from a giving url

Vast Converter
Converter for converting vast xml files version 1 to vast version 2

BOOKS & COURSES

Books   Clean Code - Robert Cecil Martin

	The Nature of Code - Daniel Shiffman
Courses	Head First Design Patterns - Elisabeth Freeman and Kathy Sierra
	CS50's Introduction to Computer Science - Harvard
	Good Parts of JavaScript and the Web - Douglas Crockford
	THE ODIN PROJECT
	Web Development - Udacity

PUBLICATION

- Laravel dynamic databases - Medium Article

LIFE PHILOSOPHY

however difficult life may seem, there is always something you can do, and succeed at. It matters that you don't just give up - Stephen Hawking

REFERENCES

Available upon request