Amr Badawy

Software Developer

- 413, Compound The Address, Sheik Zayed, Giza, Egypt
- March 18, 1998
- amr.badawy13@gmail.com
- +201149229922
- badawy.dev
- kashik0i
- amrabdelrahmanbadawy

INTERESTS

Chess

Algorithmic music programming
Alda, Sonic Pi

Reading Fiction

SKILLS

Problem-solving	Time management
Collaborating with other developers	Self-development

LANGUAGES

PHP	JavaScript
TypeScript	C#
Python	PLSQL
Java	C++
Go	

FRAMEWORKS

Laravel	Lumen
Node	.Net Core
Express	svelte
JQuery	Oracle
Redis	Tailwind CSS
React	Vue
.Net Framework	

AWARDS

Certificate of participation *(May 16, 2019)*
MSA University

Theatre Club Program

CERTIFICATIONS

Machine Learning Heart Disease Prediction *(August 01, 2021)*
Alibaba Cloud

React: Building Progressive Web Apps (PWAs) *(March 01, 2021)*
LinkedIn

React: Building Styles with CSS Modules *(May 01, 2021)*
LinkedIn

Go for Beginners
JetBrains Academy
- hyperskill.org

PUBLICATIONS

non-invasive glucose measurement using smart watch
unpublished yet

the thesis tries to accurately predict the glucose level in the blood stream using an ensemble of deep learning and machine learning models, using ECG and tri-axial accelerometer signal from a dataset collected from CGM on healthy and diabetic patients, the dataset is filtered, normalized and transformed into a spectrogram images and the problem is treated as an image classification problem. the achieved accuracy is 70%.
- http://imsa.msa.edu.eg/

My Objective

To be able to work for an encouraging and stable company that will assist me in developing, improving and obtaining the necessary skills in order to become the best version of myself.

WORK EXPERIENCE

Pylon *(October 01, 2021 - June 30, 2023)*
Software Developer

- Developed and maintained large-scale Oracle databases, implementing business logic using PLSQL procedures.
- Integrated external payment services such as Fawry, NBE, and PayTabs to provide prepaid and postpaid payment options.
- Modernized legacy PHP code by migrating to the Lumen framework and extending it with custom helper classes to streamline PLSQL queries.
- Enhanced application and API security by implementing OWASP top 10 recommendations.
- Developed a customer portal providing access to electricity and water meter information and services.
- Implemented OAuth 2-based authentication and authorization for browser-based applications, backed by an Oracle database.
- Created backend systems for financial, operational, and customer dashboards.
- Designed, developed and maintained CRM modules for our in-house system.
- Improved the performance of a reporting system by implementing lazy loading for database fetching and caching the reports.
- Worked on implementing and maintaining CRM dashboards
- Implemented a Vault architecture for secure secret management. Developed an authentication microservice utilizing 2-factor authentication methods such as OTP.
- www.pylonump.com

Meet *(March 01, 2023 - Present)*
Software Engineer

- Tested API endpoints following the sequence diagram specifications using Postman, Swagger
- Developed user controller class and methods in C# following the n-tier architecture to return the followers, following and recommended users for a social media platform
- Learnt to use C# and functional programming by using delegates, lambda expressions, LINQ and async/await features
- https://meet.inc

EDUCATION

October University for Modern Sciences and Arts *(August 01, 2018 - August 01, 2022)*
Bachelor of Computer Science
3.2/4
- msa.edu.eg

Advanced Algorithms, Cloud Computing, Human Computer Interaction, Graphics Programming, Advanced Operating Systems, Object-Oriented Software Engineering

University of Greenwich *(August 01, 2018 - August 01, 2022)*
Bachelor of Computer Science
3.18/4
- www.gre.ac.uk

PROJECTS

Chat WebApp *(January 01, 2021 - March 01, 2021)*
Peer-to-peer progressive web chat application
- chat.badawy.dev

socket.io, vue.js, PWA, P2P, Typescript

CodeColab *(October 01, 2022 - Present)*
run code in the browser, locally or on the cloud

Collaborative notebook-based development environment. Combines the best features from IDEs and interactive cloud-based development environment. Can be deployed to a cloud provider like azure as serverless functions
- ide.badawy.dev

IPython, IDE, vscode, webassembly, Svelte, IBM Carbon Design, .Net Core, Typescript, pyodide, SQLite , Azure, Serverless functions

Image processing
Web based image processing application

Allows the user to apply classic image progressing filters to their images, built for a university course team project.
- https://image.badawy.dev/

python, svelte, Django

Text and sketch-guided logo Synthesis using Generative Adversarial Networks *(August 01, 2021 - July 01, 2022)*
Graduation Project (A-)

Used Generative Adversarial Networks (GANs) to build fully automated system for generating logos to be used directly by the user or as a skitch for the designer to iterate upon.

Python 3, Tensorflow, Keras, Anaconda, Google Colab, Scikit Learn, Pandas

VOLUNTEER EXPERIENCE

Lebaladna *(May 01, 2019 - August 01, 2019)*
Volunteer

- worked on packaging food supplies and meals
- collected clothes from donors to be cleaned and given to those in need
- gave presentation on the importance of digital transformation of volunteering to reach more people in need and better serve them
- https://lebaladna.org/

REFERENCES

Ayman Ezzat
Mentor
Vice Dean Faculty of Computer Science (MSA University)
- +201096950503
- aezzat@msa.edu.eg

Ahmed Samir
Current Employer
Head of Software (Pylon)
- +201220317511
- asamir@elsewedyintel.com