

Marwan shamel

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Summary

Motivated Computer Science professional with one year of experience as a Backend Developer and **two years in Machine Learning and Data Analysis**. Experienced in **Node.js, PHP, and databases**, with a proven track record of developing various web applications. Skilled in **Python, R, PHP, Java, Java Spring, and JavaScript**, with expertise in working with APIs in Java Spring. Strong problem-solving abilities and extensive knowledge of operating systems (OS). Previously interned at Neuronetix, focusing on **machine learning algorithms and data handling**. Also served as a Machine Learning instructor at Zaka, fostering student learning, and volunteered with IEEE for community outreach and tech initiatives.

Education

- **Helwan University** **10/2021 - present**
Computers and Artificial Intelligence | CS Department
Expected Completion: 12/2025
GPA: 3.2 | Grade: Very Good

WORK EXPERIENCE

- **Data Entry** **06/2023 - 09/2023**
B-tech, Cairo
 - Entered and managed product data using Microsoft 365 applications (Word, Excel) with a typing speed of 45 WPM for 3 months
- **volunteer** **09/2023 - 12/2023**
IEEE, Cairo
 - Instructed 3 session of students in **Python** and **block-based coding** as part of the **IEEE**, fostering computational thinking and programming skills by 100%.
 - Designed and led **hands-on coding workshops** that catered to different skill levels, ensuring an engaging and practical learning experience by 95% .
 - Assisted students individually, providing guidance on coding challenges and promoting problem-solving techniques by 90% .

- **Coordinator, Instructor**
El mentor, Cairo

07/2024 - present

- Coordinated more than 15 educational programs by **managing schedules, resources, and team communications** to ensure smooth operations resulting in a 100% increase in student satisfaction.
- Organized more than 6 workshops and events, collaborating with instructors and students to ensure all logistics were handled efficiently by 100%.
- Ensured the timely delivery of educational materials and maintained clear communication channels between instructors and participants.

- **Instructor**
Ischool, Cairo

01/2025 - present

- **Instructed** more than 7 educational programs, delivering structured lessons and hands-on exercises, resulting in a **100% improvement in student engagement and comprehension**.
- **Developed and delivered** high-quality educational materials, maintaining **clear communication channels** to support students' learning journey effectively

Internships

- **ZAKA Trainee**
Cairo

05/2024 - 09/2024

- Completed 4 months of exchanging benefits , sharing information with artificial intelligence specialists and soft skills training in communication and teamwork.

- **ML Trainee**
Neuronox , Cairo

08/2024- 09/2024

- Completed more than 10 tasks on two weeks of CV , NLP and a lot of algorithms in machine learning.
- Learned supervised learning (e.g., linear regression, decision trees), unsupervised learning (e.g., k-means clustering, hierarchical clustering), and reinforcement learning (e.g., Q-learning, Deep Q-Networks)

- **DEPI , AI & Data Science - AWS Machine Learning Engineer** **10/2024- present**

- AWS Machine learning engineers use AWS technology to work with algorithms, data, and artificial intelligence
- Their tasks involve researching, building, and designing the artificial intelligence responsible for machine learning and maintaining and improving existing artificial intelligence systems

Technical Skills

- **Security courses** : EJPTv4 (netriders academy)
- **Machine learning** : CV , NLP , Data Analysisic , Algorithms about ML
- **Web Technologies**: node.js

- **Databases:** MySQL , SQL Server
- **Other:** Object-Oriented Programming (OOP) ,Data Structures , Algorithms ,Authentication, Authoritarian ,Validation ,Git&GitHub
- **Programming Languages:** C/C++ , JavaScript (JS), HTML, CSS, bootstrap , Java , Python, PHP

Projects

Cnn_models , *resnet* , *Xception* , *densenet*

Trained and evaluated three deep learning models (ResNet, Xception, DenseNet) for multi-class image classification using the FaceScrub dataset, achieving high accuracy through fine-tuning and data augmentation techniques.

Multi-Threaded Document Processor *java*

A Java-based application that uses multi-threading to process and analyze large text documents efficiently. Features include word count, top word frequency analysis, and a user-friendly GUI with real-time results.

Blog , *html* , *css* , *js* , *php-laravel*

A Facebook-like blog built using PHP Laravel. The project implements all essential CRUD operations and integrates advanced security features such as JWT authentication for secure user sessions.

Cubic player , *python* , *algorithms*

An Intelligent Cubic Player using the Minimax Algorithm, Alpha-Beta Pruning, and Heuristic Functions(team leader)







Movie ticket system , *php* , *sql* , *html* , *css* , *js* , *jquery* , *bootstrap*

system to book ticket and allow for users and cinemas to use
(team leader for it)

Soft Skills

- Strong organizational time-management skills
- Exceptional communication
- interpersonal skills
- Ability to work independently and as part of a team
- problem solving skills
- leadership skills

Certificates

- Egypt fwd. certificate for complete web development track (4/2023) 
- problem solving certificate from student activity (MSP) (6/2023) 
- Complete Intern trainee with ZAKA (10/2024) 
- Complete Intern with Neuronetix (10/2024) 
- Complete Huawei internship with 140 hour (9/2024) 
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LANGUAGES

Arabic : native

English : B2