

Aghiad Elwan Al-Hamwi - CV

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Professional Summary

A results-driven software engineer and web developer with over 4 years of experience designing, developing, and optimizing web applications. Specializing in Laravel, React, UX/UI design, WordPress, C#, Python, Java, C++, SQL Server, HTML, CSS, and PHP. Proficient in scalable software engineering, performance optimization, database administration, AI-based solutions, and problem-solving. I have a proven ability to optimize website speed (from 5 seconds to 0.8 seconds), optimize database queries (from 2000 milliseconds to 50 milliseconds), and process big data (from 8 hours to 1 hour). Experienced in Agile and Scrum methodologies.

Core Competencies

- Software Architecture & Development
- Front-End & Back-End Development
- UX/UI Design & Prototyping
- Database Optimization & Performance Tuning
- Agile & Scrum Methodologies
- DevOps & CI/CD Pipelines

Professional Experience

Freelance Web Developer & Software Engineer

2020 – Present | Remote

- Developed & deployed 20+ websites and applications using Laravel, PHP, and WordPress.
- Optimized website performance (e.g., improved page load speed from 5s to 0.8s via image compression & caching).
- Enhanced database efficiency, reducing query execution time from 2000ms to 50ms through SQL indexing.
- Built AI-powered solutions (e.g., Medical Platform with 95% accuracy in disease detection using deep learning).
- Integrated scalable cloud-based solutions with CDN & caching to improve system reliability.
- Collaborated with 20+ clients, receiving consistently high ratings for flexibility, communication, and problem-solving.

Education

- University of Homs, Syria
- Faculty of Information Technology Engineering (Software Engineering)
- Graduated in 2025

Certifications & Training

- Completed Android Developer Track
- Completed Front-End Development Track
- Participated in Full-Stack Development Track
- Certified in PHP & HTML5

Project Experience

1- Medical Platform (2024)

Developing a medical AI platform for disease analysis using React, Laravel, and Python (fast.ai).

- Achieving 90% to 95% accuracy in detecting retinal diseases, tumors, and lung diseases.
- Processing more than 100,000 medical images, improving diagnostic efficiency.

Project Objective:

This project is based on the idea of developing a medical forum that brings together specialists and deep learning algorithms for disease analysis. The primary goal is to facilitate the medical diagnosis process by providing effective and intelligent solutions to the challenges facing both medical staff and patients. This system provides an interactive environment between patients and medical teams, facilitating communication and contributing to the provision of higher-quality and faster medical care.

The system will also rely on the development of an intelligent conversational interface that uses deep learning technologies to provide medical information and necessary guidance to patients in a smooth and efficient manner. In addition, the project includes the development of medical image analysis tools used in early and accurate disease diagnosis, contributing to improved treatment outcomes and reducing medical errors.

2- AI Image Analysis (2022-2023)

- Building an AI-powered image processing tool using MobileNet V3 and frozen_inference_graph.
- Processing over 200,000 datasets, improving the accuracy of object detection and age estimation.
- Improving system performance using GPU/CPU acceleration and distributed computing.

Project Objective:

The project aims to present a model for an application that extracts information from images using artificial intelligence and Python.

This application can detect people in images and determine their gender, age range, and age group (child, young adult, elderly).

In addition, this application can perform a range of real-time functions, such as extracting numbers from hand gestures, recognizing objects, detecting fires and issuing necessary alerts, and recognizing primary colors.

3- Kayan(2022-2023):

Developed a personal portfolio website that showcases various projects. The platform allows users to categorize their work and includes an integrated online store that enables them to sell their creations online.

4- Elwan Library (2020-2021):

Designed and implemented an online system for Elwan Library, allowing users to browse and download the latest novels in PDF format for free. The platform focuses on providing easy access to literary content.

5- AghiadPort (2021-2022):

Created a personal portfolio website that showcases and categorizes various projects. The platform is designed to highlight professional achievements and organize projects.

6- To-Do List (2024-2025):

Developed a task management app that helps users organize their tasks efficiently. The app allows users to add, edit, delete, and prioritize tasks, while offering features such as search and Dark mode.

Performance Optimization Projects

- **Website Speed Optimization:** Reduced page load time from 5s to 0.8s using WebP, lazy loading, and CDN.
- **Database Query Optimization:** Cut SQL execution time from 2000ms to 50ms via indexing & query restructuring.
- **Big Data Processing:** Improved ETL pipeline, reducing processing time from 8h to 1h via Apache Spark & Polars.

Technical Skills

- Programming Languages: PHP, Python, Java, C++, C#
- Web Technologies: HTML5, CSS, JavaScript, Laravel, WordPress
- Databases: Oracle, SQL Server, PostgreSQL, MySQL
- Cloud & DevOps: GitHub , GitLab
- Agile Project Management Tools: Jira, Sprint Planning
- Development Tools: Git, VS Code, Adobe XD, Microsoft Office

Achievements

- Optimized website performance, boosting SEO score from 60/100 to 95/100.
- Reduced database query time by 97.5% (2000ms → 50ms).
- Built scalable AI solutions, handling 100K-200K dataset sizes with high accuracy.
- Successfully managed & deployed 20+ client projects with 100% positive feedback.

Languages

- Arabic (Native)
- English (Very Good)