

# SHERIF ABDULLAH

## Software Engineer

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## EXPERIENCE

### Software Engineer

#### Verto Wave

April 2024 - Present

Cairo, Egypt

- Led development and deployment of **StackX**, an enterprise automation platform managing 10,000+ devices and 25+ backend services in production.
- Leveraged AI to boost development efficiency by automating repetitive tasks and generating code templates.
- Applied AI-driven solutions to enhance workflow automation and reduce manual intervention.
- Integrated AI to accelerate debugging, optimize processes, and improve system performance.
- Built the **Vertowave Authorization Package** with **Keycloak**, reducing setup time by **95%** and standardizing access control company-wide.
- Engineered a dynamic **Workflow Engine** supporting rollback, triggers, scheduling, and parameterized workflows, executing 1,000+ automated tasks monthly.
- Optimized backend APIs and SQL queries, improving performance by **30%** and reducing average response time to under **200 ms**.
- Implemented **CI/CD pipelines** using Docker and GitHub Actions, reducing deployment time by **65%** and enabling zero-downtime releases.
- Integrated AI-powered automation using **Python** and **LangChain** to improve workflow decision-making and predictive task execution.
- Collaborated in Agile teams, performed code reviews, contributed to architecture design, and maintained clean, scalable code across services.

## PROJECTS

### StackX Automation – Verto Wave Project

**.NET, RabbitMQ, Keycloak, SQL, React, Tailwind, TypeScript, Python, LangChain**

April 2024 - Present

- Developed a visual workflow builder and real-time response tools, improving debugging efficiency and execution transparency.
- Designed reusable **UI and Authorization libraries**, boosting frontend development speed and ensuring consistent company-wide standards.
- Delivered comprehensive auditing, tagging, and monitoring capabilities, reducing manual workload and deployment time.
- Applied AI-driven workflow automation and predictive analytics for task prioritization and error reduction.

## EDUCATION

B.Sc. in Computer Science and Artificial Intelligence

**Modern University for Technology & Information, Egypt**

## SKILLS

.NET Core

C#

Entity Framework

RabbitMQ

MassTransit

Elasticsearch

Blazor

Keycloak

OpenID Connect

Docker

React

TypeScript

Tailwind

ShadCN

JavaScript

SASS & CSS

REST APIs

CI/CD

jQuery

Ajax

HTML

Bootstrap

Python

Django

SQL

Git & GitHub

AI/ML

LangChain

Linux

Team Work

Organization

Flexibility

Responsibility

Multitasking

## CERTIFICATIONS

- .NET Core Microservices - Udemy
- .NET Core - The Complete Guide - Udemy
- React - The Complete Guide - Udemy
- Python Django - The Practical Guide - Udemy
- The Complete Python Bootcamp - Udemy