SHERIF ABDULLAH

Software Engineer

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EXPERIENCE

Software Engineer Verto Wave

April 2024 - Present

Cairo, Egypt

- Led development of **StackX**, an enterprise automation platform managing 10,000+ devices and 25+ backend services, enabling teams to run, monitor, and orchestrate automated workflows across infrastructure.
- Built a unified Vertowave Authorization Package with Keycloak, reducing setup time by 95% (from 3 months to 3 days) and ensuring consistent access control across projects.
- Engineered a dynamic **Workflow Engine** supporting rollback, triggers, scheduling, and parameterized workflows—executing 1,000+ automated tasks monthly.
- Created rich visualization tools and real-time response viewers (JSON, tables, text, and file output) to simplify result inspection and debugging.
- Optimized backend APIs and SQL queries, improving performance by 30% and reducing average API response time to under 200 ms.
- Implemented CI/CD pipelines using Docker and GitHub Actions, reducing deployment time by 65% and ensuring consistent build environments.
- Collaborated in an Agile team environment, performing code reviews, contributing to design discussions, and maintaining clean, scalable architecture across services.

PROJECTS

StackX Automation – Verto Wave Project .NET, RabbitMQ, Keycloak, SQL, React, Tailwind, TypeScript

April 2024 - Present

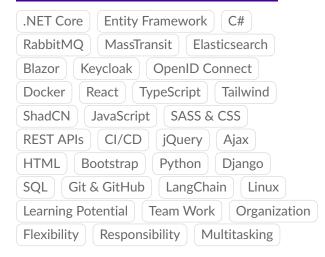
- Led development of StackX, an enterprise automation platform managing diverse infrastructure (devices, servers, APIs) with secure, role-based access.
- Built dynamic **Workflow** and **Actions Engines** with rollback, triggers, and reusable templates to automate complex operational tasks.
- Developed a visual workflow builder and real-time response tools, improving debugging efficiency and execution transparency.
- Created the reusable Vertowave UI Library, boosting frontend development speed and consistency across all projects.
- Designed the Vertowave Authorization Package integrated with Keycloak, cutting setup time by 95% (from 3 months to 3 days) and standardizing access control company-wide.
- Delivered comprehensive auditing, tagging, and monitoring capabilities, reducing manual workload and deployment time significantly.

EDUCATION

B.Sc. in Computer Science and Artificial Intelligence

Modern University for Technology & Information, Egypt

SKILLS



CERTIFICATION

- .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