Ahmed Alaa Elgizawy

Software Development Engineer at Arab International Optronics

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Summary:

Innovative software development engineer that focuses on adding value to business either by saving time or reducing cost through defining business problems, building scalable applications using different software tools like C#.NET, Python and MS SQL Server.

Company Overview:

www.aioegy.com / www.thalesgroup.com/en/countries/middle-east-africa/egypt

Arab International Optronics is a National Service Projects Organization Company. Established in 1982. **AIO** manufactures Advanced Optical, electro-optical and electronic systems for commercial applications, Night Vision Systems, Laser Warning and Radar Systems, Energy Saving LED Light Systems, Solar Energy Systems, Multi-purpose wooden products. Company shareholders 51% **National Service Projects Organization** and 49% **Thales Group.**

Professional Experience:

Arab International Optronics

November 2019 - Present

- **Testing and Validating a Thermal Imager (Plug 612)** :

Developed a Desktop Application to Test and Validate Thermal Imaging Sensor by sending commands via RS232 protocol using C#, as there was only 2 software developers in the company by that time, I reduced the time of entering the thermal imager to service by 1 month.

- **Testing and Validating a Laser Range Finder (Voxtel)** :

Developed a Desktop Application to Test and Validate Laser Range Finder by sending commands via RS232 communication protocol using C#. Reducing the time of entering the LRF to service by 1 month.

- **Back-end and Database design for a Contactless payment for Employees** :

   Designed and developed the back-end of a contactless payment application for employees to pay for meals in the company cafe without the need for cash. Resulted in solving the problem of employees need for cash to pay and reducing time for preparing the meals during break times.

- **Integrating GPS Module with Laser Range Finder and Thermal Imager** :

Developed a Desktop Application to integrate Laser Range Finder, GPS and Thermal Imager in a single system using C#, Resulted in reducing the cost of getting a ready-made device for the same purpose.

- **Database Design and Implementation for an Artillery Fire Control System :**

Designed a Database to store coefficients to help calculate weather parameters like wind speed and temperature at different Atmospheric Layers using MS SQL Server.

Web Developer (Freelance at B-Followed)

October 2016 - July 2017 (HTML / CSS)

Web sites development and collaboration in marketing activities for content creation identifying saleable features of a product on Social Media accounts for a start-up company in Digital marketing.

Education history:

Bachelor of Computer Engineering
Arab Academy for Science, Technology and Maritime Transport
September 2013 - June 2018
Graduation Project: Excellent

Roles and responsibilities:

- Adding value to the company by defining business problems that needs solving from our customers then translating them to technical tasks.
- Leading Development and Testing of Applications Backend and Database.
- Work closely with engineering teams.
- Understand business issues and recommend process improvement.
- Identify and escalate roadblocks/issues in a timely manner that may need senior management involvement to be resolved.
- Manage team-mates and processes for smooth operations while maintaining individual deliverables.
- Technical communication with peers and non-technical cohorts.

Soft skills:

- Ability to learn new software and technologies quickly.
- Able to deliver results in a cross-functional team.
- Adopt best practices.
- Creative thinking.
- Frequently collaborating directly with product management.
- Curious and able to learn new codebases.

Self-learning courses:

- **Udemy:** .NET Entity Framework in Depth (July 2022).
- **Udemy:** Advanced Topics in C# (July 2022).
- **Epsilon AI Institute: Certified Data Science Professional:** Data Analytics and visualization, Machine Learning, Deep Learning as basis for another Computer Vision Course. (November 2021, Present).
- **ITI (Information Technology Institute):** Embedded Systems Diploma (Feb 2019 - Aug 2019).
- **IMT Schools:** Embedded Systems Diploma (Nov 2018 - Feb 2019).
- **Telecom Egypt:** Network Fundamentals 10 Days Training (Aug 2017).