# MOHAMED ELHALFAWY

## Software Engineer

📞 +201000965660

@ mohamed.elhalfawyy@gmail.com

🔗 https://mohamedelhalfawyy.github.io/Halfawy_Portfolio/

🔗 https://www.linkedin.com/in/mohamedelhalfawy/

📍 Alexandria, Cairo, Egypt

## SUMMARY

Passionate junior backend developer with experience in Python, Java, PHP, Node.js, MongoDB, and AWS. Strong knowledge of RESTful APIs, MVC frameworks, database design, and cloud computing. Writes clean, scalable, and testable code. Uses Git for version control and agile methodologies for project management. Eager to learn new technologies and enhance developer skills.

## EXPERIENCE

### Data Engineer

**VlyTix**

📅 07/2022 - Present   📍 Ottawa/Canada

*A leading IT services and consulting company that provides data solutions across the entire data lifecycle, from data collection and storage to analytics and visualization.*

- Optimized database performance by creating custom indexes, partitioning tables, and optimizing SQL queries;
  reduced query execution time by 70% and improved application response time by 50%
- Built a data pipeline that automated the extraction, transformation, and loading of data from multiple sources into a centralized data warehouse, resulting in improved data availability and accessibility for business users.
- Implemented data quality checks and validation rules to ensure the accuracy and reliability of the data.
- Worked with various data sources and platforms such as Azure, and AWS.
- Implemented data quality checks and validation rules to ensure the accuracy and reliability of the data, reducing errors and inconsistencies in the data reports.

### Senior Software Engineer

**DIB GmbH**

📅 05/2023 - Present   📍 Germany

*We develop customizable software apps that help businesses in the insurance, real estate, and medical industries to improve their efficiency, productivity, and customer service.*

- utilizing my expertise in Python programming language and related technologies. I played a key role in designing and implementing scalable solutions for complex business requirements.
- Collaborating with cross-functional teams to ensure the timely delivery of high-quality software products.
- Integrating third-party APIs and services with our microservices architecture to extend the functionality of our applications and enable seamless interactions with external systems.
- Through my expertise in microservices and AWS, I played a crucial role in driving innovation, improving system efficiency, and delivering top-notch software solutions to meet the company's business objectives effectively.

## EDUCATION

### Bachelor's Of Computer Science (B.CS.)

**Arab Academy For Science, Technology & Maritime Transport**

📅 09/2018 - 07/2022   📍 Alexandria,Egypt

GPA **3.7** / 4.0

## SKILLS

### Backend

Python | Java | JavaScript | NODEJS
PHP | DJANGO | FLASK | KAFKA
DART | RESTAPI | GRAPHQL | JSON

### Frontend

REACTJS | ANGULAR | FLUTTER
HTML | CSS

### Database

SQL | MYSQL | SQL SERVER
MONGODB | FIREBASE | AWS RDS

### DevOps Tools/Version Control

JIRA | AWS | GIT | DOCKER | SLACK
PROBLEM SOLVING | OOP
DATA STRUCTURES & ALGORITHEMS
DESIGN PATTERNS | SOLID PRINCIPLES
DEBUGGING | TESTING
COMMUNICATION SKILLS
TIME MANAGMENT

## CERTIFACTES

📄 **SQL for Data Science - University of California, Davis**
(09/2022 - 10/2022)

📄 **Certificate of Algorithmic Toolbox - University of California San Diego**
(08/2022 - 09/2022)

## FREELANCE

### ♛ UPWORK (08/2018 – 04/2023)

Software Engineer with 4+years to experience working as a freelance developer. Skilled in full-stack web development using languages as Python, JavaScript, and PHP. Proficient in various frameworks such as DJANGO, Flask and React, and experinced in building scalable and efficient web applications. Adept at collaborating with clients to identify their requirments, designing custom software solutions, and delivering high-quality products within deadlines.

## LANGUAGES

**Arabic**
Native

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**English**
Native

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