Mohamed ElHalfawy

Software Engineer

I am a backend developer with 4+ years of experience in developing and deploying web applications using Python, Java, PHP, Node.js, MongoDB, and AWS. I have a strong knowledge of RESTful APIs, MVC frameworks, database design, and cloud computing. I write clean, scalable, and testable code following best practices and industry standards. I also use Git for version control and agile methodologies for project management. I am passionate about learning new skills and technologies to enhance my professional development and deliver high-quality solutions to clients. Eager to learn new technologies and enhance my developer skills.

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🖱 mohamedelhalfawyy.github.io/Halfawy_Portfolio/

○ github.com/mohamedelhalfawyy

EMPLOYMENT HISTORY

Data Engineer
VlyTix

07/2022 - Present   *Ottawa/Canada*

Providing consultancy, training, and professional services in the areas of data analytics, business intelligence, data automation (RPA) and integration, and data science.

Achievements/Tasks

- Data Engineer at Vlytix in designing and developing large-scale data processing systems. Proficient in programming languages such as Python, Java, and SQL, with extensive experience in building data pipelines using Apache Spark and Kafka. Skilled in data modeling, ETL development, and data warehousing, with a strong understanding of data integration techniques. Proven track record of collaborating with cross-functional teams to deliver high-performance and efficient data solutions. Possesses excellent communication and problem-solving skills, and is dedicated to delivering innovative solutions that meet business needs.
- Optimized database performance by creating indexes, partitioning tables, and optimizing queries.
- Designed and implemented automated data pipelines to streamline the data processing and reporting workflows.
- Programming languages: Python, SQL, Java, API-Integration
- Database technologies: MySQL, SQL SERVER, MongoDB
- Cloud computing: Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure
- Version Control Systems: GIT, GitHub, Gitlab, GitKraken

EDUCATION

Bachelor's Of Computer Science (B.CS.)
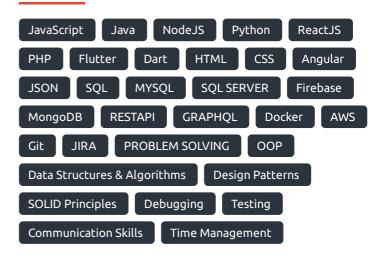Arab Academy For Science, Technology & Maritime Transport

09/2018 - 07/2022   *Alexandria, Egypt*

GRADE

- 3.77 (Excellence With honors)

SKILLS

JavaScript Java NodeJS Python ReactJS
PHP Flutter Dart HTML CSS Angular
JSON SQL MYSQL SQL SERVER Firebase
MongoDB RESTAPI GRAPHQL Docker AWS
Git JIRA PROBLEM SOLVING OOP
Data Structures & Algorithms Design Patterns
SOLID Principles Debugging Testing
Communication Skills Time Management

FREELANCE

Upwork (08/2018 - Present) ↗
- Software Engineer with 4+ years of experience working as a freelance developer. Skilled in full-stack web development using languages such as Python, JavaScript, and PHP. Proficient in various frameworks such as Django, Flask, and React, and experienced in building scalable and efficient web applications. Adept at collaborating with clients to identify their requirements, designing custom software solutions, and delivering high-quality products within deadlines. Possesses strong communication and problem-solving skills, with a passion for developing innovative solutions that meet the needs of clients and end-users.

BitsForDigits Website (Modifications) (10/2020 - 12/2020) ↗
- Migrate the database to Firebase and adjust the Front-end and Back-end of the website interface using web flow

CERTIFICATES

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)

LANGUAGES

ARABIC
Native or Bilingual Proficiency

ENGLISH
Native or Bilingual Proficiency