Mohamed ElHalfawy

Software Engineer

I am a junior backend developer passionate about creating scalable and reliable web applications. I have experience 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*

a leading IT services and consulting company that provides data solutions in the areas of data analytics, business intelligence, data automation, integration, and data science.

Achievements/Tasks

- 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.

Senior Software Engineer
DIB GmbH

05/2023 - Present   *Germany*

developing customizable software apps for insurance, real estate, medical, and more.

Achievements/Tasks

- 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.
- Additionally, I led code reviews and mentored junior developers to ensure adherence to best practices and high standards of software engineering.
- Through my contributions, I helped the company achieve its business goals and establish a reputation for delivering innovative software solutions.

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 - 04/2023) ↗

- 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