Omar Hamdy

Experience

RMZ Tech 9/2021 - 10/2021

(Business Development & Software Engineering company since 2007)

- Completed a 1-month intensive training program in web development using Laravel framework, gaining proficiency in PHP and web development best practices.
- Collaborated with a team to develop a custom web application, including a pothole reporting website. Users can report potholes by map location, and administrators (government employees) have system privileges to address them accordingly.
- Demonstrated strong problem-solving skills and attention to detail in debugging and testing code, ensuring the smooth functionality of the pothole reporting website.

Engovation 8/2022 - 10/2022 (Engineer training company)

- Successfully completed a 2-month training program in Cisco Certified Network Associate (CCNA), gaining expertise in network engineering and troubleshooting.
- Developed practical skills in configuring routers and switches, implementing VLANs, and managing network security.
- Demonstrated effective communication and teamwork skills in collaborating with other students on group projects and assignments.

Projects

Driver Drowsiness Detection | Python, Linux (Grad Project)

- Developed an embedded system driver drowsiness detection using Nvidia Jetson Nano, camera, keypad, and buzzer.
- Utilized OpenCV and the Dlib library to detect faces and facial landmarks and calculate the eye aspect ratio.
- Developed a real-time system that compares the eye aspect ratio with a given threshold and signals the buzzer if the threshold is exceeded.
- Implemented a keypad input system to modify the threshold value.

Pothole-Reporting-System | Laravel Framework

- A web application for reporting potholes to the government.
- Enabled users to report potholes with map location details.
- Implemented an admin panel for government employees to manage and prioritize pothole reports.

♦ E-Commerce API | .NET Core, EF Core, Pomelo

- Developed a feature-rich .NET API for an e-commerce platform, leveraging .NET Core, EF Core, and Pomelo EF Core.
- Integrated a sophisticated search feature, enabling users to search for products based on name or category.
- Repository Pattern for efficient data access.
- Service Layer Pattern for modular business logic.
- Strategy Pattern for flexible services behaviour.

Express Book API | Express NodeJS

- Implements GET, POST, PUT, and DELETE functions for book management.
- Utilizes endpoint filters for precise data retrieval.
- Enhances performance with async/await for asynchronous

Budget App | React.js

- React-based budget app for efficient tracking and management of expenses.
- Intuitive user interface for seamless budget input and visualization.
- Dynamic and responsive updates to reflect changes in budget allocation.

To-Do List App | ReactJS

- React-powered to-do list for organizing and managing daily tasks.
- User-friendly with drag-and-drop functionality for task prioritization.
- Synchronized across devices for on-the-go task management.

Alexandria, Egypt Permanently Exempted OmarHamdyx

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in Omar Hamdy o.hamdy1999@gmail.com

(#) HackerRank

Education

Faculty of Engineering Alexandria University

Sep 2018-June 2023

B.Sc. in Computer Science and Communication GPA: 3.04/4 (Very Good)

Alexandria Language School

High school diploma (2004-2018) Graduated with 95.7%.

Skills

Programming: OOP, C#, C++, C, HTML, MySQL, JavaScript, CSS, Json, Java, Python

Libraries/Framework: NET Core, EF Core, Pomelo, Swagger, ReactJS, Django, NodeJS, Express

Tool/Platform: Visual Studio Community, VS Code, Postman, Microsoft Office, GIT, MATLAB

◆ Car Rental System Website | HTML, PHP, and MySQL

- Developed a car rental system website using HTML, PHP, and MvSQL.
- Allowed customers to search for rental cars, make reservations, and manage bookings.
- Included admin panel for managing car inventory and customer reservations.

♦ Fitness Tracker App | Java

- Feature-rich fitness tracker app using Java.
- Allowed users to track daily exercise routines, set fitness goals, and monitor progress.

♦ Client-Server Interaction | Python

- Client-server interaction system using Python.
- Allowed multiple clients to connect to a server and exchange messages in real-time.

♦ Restaurant Reservation System | Java

- Restaurant reservation system using Java and applying Object-Oriented Programming concepts.
- Allowed customers to make reservations, browse menus, and provide feedback.
- Included admin panel for managing reservations and restaurant operations.

♦ Chess Game | Python

- Fully functional chess game using Python and applying Test-Driven Development principles.
- Included all standard chess rules and features.

♦ Linux Shell | C Programming

- · Command-Line Interface for user interaction.
- Shell Commands include file manipulation and process control.
- · Supports scripting, system integration, and cross-platform compatibility.

Embedded DTMF Code Lock | Embedded C

- Designed and implemented an embedded DTMF code lock system using an AVR ATmega16A Microcontroller.
- Used DTMF tones generated by a keypad and a DTMF decoder to authenticate and unlock a door. Languages

Courses

Software Engineering, Analysis and Design of Algorithms, Data Structures I & II, Operating System, Database Systems, Computer and Network Security, Artificial Intelligence, Computer Network, Net-Centric Computing, Cloud Computing, Developing React Apps, Developing Express Node.js Apps.

♦ English: Full Professional Proficiency

♦ French: Limited working proficiency