MOHAMED MOAMEN

Frontend Developer (ReactJs)

My Portfolio

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CAREER OBJECTIVE

Looking forward to join multinational or fast-growing company where I can enhance my capabilities and make use of my technical background.

EDUCATION

CAIRO UNIVERSITY

Bachelor of Electronics and Electrical Communication Engineering

Graduation year: 2020.

Accumulative Grade: Good.

GRADUATION PROJECT

Collision Avoidance and Warning System Using Convolutional Neural Network and V2V Communication over a Wi-Fi Network by Implementing 3 use cases, Forward Collision Warning, Road bumps detection and Pedestrian detection Using TM4C123GXL Microcontroller as main ECU which is responsible for information collection and processing and a Nvidia Jetson Nano which is responsible for object detection, a link was established between the two ECUs using some communication protocols.

Sponsored by IHub (Grade: Excellent).

My Role: V2V communication over a Wi-Fi network and localization by GPS module

Supervisors: Dr. Ahmed Hussien and Dr. Samah Elshafiey

EXPERIENCE

Network Engineer [ECOTEL] | [August 2021, January 2025]
- Managed network infrastructure (switches, routers, firewalls, servers) across multiple sites.
- Implemented security solutions (Forcepoint firewalls, DHCP) ensuring data protection and optimal performance
- Performed preventive maintenance and troubleshooting.
- Organized structured cabling with patch panels and color-coding systems.
- Installed and maintained UPS systems for power continuity

FRONTEND PROJECTS

- **E-Commerce Web Application:** Built an interactive and fully functional e-commerce shopping cart using React. The application allows users to browse products, add or remove items from the cart , update quantities, and view dynamic totals. It features a responsive UI optimized for all screen sizes and includes essential e-commerce functionality.

  DEMO   **GitHub**
- **Todo List Application:** A dynamic web application developed using React.js, designed to help users efficiently organize and track their daily tasks by adding, editing and deleting tasks. the application focuses on providing a seamless user experience and robust task management functionalities, and a fully responsive design across all screen sizes.

  DEMO   **GitHub**

- **Real Time Weather Forecast Application:** A responsive web application that displays real-time weather data by fetching live forecasts from an external API. Built with React and optimized for both desktop and mobile screens, and supports both Arabic and English languages.

  DEMO   **GitHub**

ACADEMIC PROJECTS

- **Computer Based projects:**
  - **Data structure:**
    1. Use priority queue to implement a version of selective repeat protocol.
    2. Use stack to implement infix expression calculator.
    3. Use in-order linked list to build file analyzer and a small search engine.
- **Computer Architecture:** Design of a simple micro-processor with 32 instructions set using VHDL and use these instructions to run a simple application (Traffic light).
- **Embedded Systems projects:**
  - Use ATmega32 microcontroller to implement autonomous parking car module.
  - Use ATmega32 microcontroller to implement a digital clock using the concept of seven segment multiplexing.
  - Use Atmega32 microcontroller to implement digital code lock and interfacing with LCD and keypad.

TECHNICAL SKILLS

- **HTML**
- **Javascript**
- **TailwindCss**
- **NextJs**
- **Material UI**
- **Solid knowledge in C, C++, and Assembly.**
- **Very good knowledge in computer networks.**
- **Git,Github.**
- **CSS**
- **Typescript**
- **ReactJs**
- **ReduxToolkit**
- **Very good knowledge in OOP.**
- **Very good problem-solving skills.**
- **Familiar with software IDEs (VScode,Eclipse, CodeBlocks, Anaconda).**

LANGUAGES

- **English (Good)**
- **Arabic (Native)**

TRAININGS AND COURSES

- Embedded systems Diploma, , learned about I/O ports, interrupts, timers, USART, SPI, I2C, EEPROM and Embedded C.
- Attend summer training at BARQ Systems, learned about Network Fundamentals.

MILITARY STATUS

- **Exempted**