MOHAMED MOAMEN
Frontend Developer (ReactJs)

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

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**