

# MOHAMED MOAMEN

Frontend Developer (ReactJs)

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GitHub: <https://github.com/MohamedMoamen>

## [My Portfolio](#)

## 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](#)

- **Admin Dashboard Web Application:** Developed an interactive dashboard for data visualization and management using React.js and Syncfusion Charts. Utilized structured local data files for dynamic rendering and integrated modular components for improved scalability. Designed a fully responsive interface with Tailwind CSS.

[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