

Mohamed Moamen | Full Stack Developer (PHP Laravel | ReactJs)

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PROFESSIONAL SUMMARY

Fullstack Developer with 3+ years of network engineering experience and growing expertise in full stack development using PHP Laravel and React. Passionate about building scalable web applications and leveraging technical skills to deliver innovative solutions.

EDUCATION

B.S. Electronics and Electrical Communication Engineering, *Cairo University* 2020 | **Grade:** Good
Graduation Project: Collision Avoidance and Warning System Using Convolutional Neural Network and V2V Communication | *Sponsored by IHub (Grade: Excellent)*

- Implemented 3 use cases: Forward Collision Warning, Road bumps detection, and Pedestrian detection using TM4C123GXL Microcontroller and Nvidia Jetson Nano.
- Developed V2V communication over Wi-Fi network and localization system using GPS module.
- **Supervisors:** Dr. Ahmed Hussien and Dr. Samah Elshafiey

TECHNICAL SKILLS

- **Languages:** PHP, JavaScript, TypeScript, C, C++, SQL, HTML5, CSS3
- **Libraries/Frameworks:** Laravel, React.js, Next.js, Redux Toolkit, Tailwind CSS
- **Tools & Technologies:** MySQL, Git, GitHub, OOP, Embedded Systems

SOFTWARE PROJECTS

E-Commerce Full-Stack Application | Full Stack Project | [GitHub](#)

Full-stack e-commerce platform with comprehensive user and admin functionality.

- Engineered complete e-commerce solution using Laravel API and React.js with user authentication, product browsing, shopping cart, checkout process, and order management workflow.
- Integrated role-based access control enabling admins to manage products, assign delivery members, and track order status through dedicated admin dashboard.
- Implemented advanced SQL queries and CRUD operations with MySQL database, including file upload functionality for product images.

Real-Time Chat Application | Full Stack Project | [GitHub](#)

WebSocket-powered instant messaging platform with secure authentication and message persistence.

- Developed real-time chat application using Laravel API and React.js with instant messaging via WebSockets powered by Laravel Reverb.
- Implemented high-performance broadcasting system for instant message delivery with secure authentication and message persistence in database.

Multi-Tenant School Management System | Backend Project | [GitHub](#)

SaaS-based school management platform with tenant isolation and role-based access control.

- Built multi-tenant Laravel application using Blade templating engine where all schools share same database with `tenant_id` isolation for each record.
- Implemented secure admin panel for each school enabling management of teachers, students, courses, and enrollments.

Admin Dashboard Application | Frontend Project | [Demo](#) | [GitHub](#)

Interactive dashboard for data visualization and management using modern React ecosystem.

- Developed interactive dashboard using React.js and Syncfusion Charts for data visualization and management.

- Designed fully responsive interface with Tailwind CSS optimized for all screen sizes.

E-Commerce Shopping Cart | Frontend Project | [Demo](#) | [GitHub](#)

Interactive e-commerce shopping experience with dynamic cart functionality.

- Built fully functional e-commerce shopping cart using React allowing users to browse products, manage cart items, and view dynamic totals.
- Implemented responsive UI optimized for all screen sizes with essential e-commerce functionality.

Data Structure Projects | Academic Project

Course projects demonstrating data structure implementation and algorithms.

- Used priority queue to implement a version of selective repeat protocol.
- Used stack to implement infix expression calculator.
- Used in-order linked list to build file analyzer and a small search engine.

Embedded Systems Projects | Academic Project

Microcontroller-based systems using ATmega32 demonstrating embedded programming skills.

- Used ATmega32 microcontroller to implement autonomous parking car module.
- Used ATmega32 microcontroller to implement digital clock using seven segment multiplexing concept.
- Used ATmega32 microcontroller to implement digital code lock with LCD and keypad interfacing

PROFESSIONAL EXPERIENCE

ECOTEL | Network Engineer | Aug 2021 - Jan 2025

- Managed network infrastructure including switches, routers, firewalls, and servers across multiple sites ensuring optimal performance and uptime.
- Implemented security solutions using Forcepoint firewalls and DHCP configurations ensuring data protection and network security.
- Performed preventive maintenance and troubleshooting resolving network issues and minimizing downtime.
- Organized structured cabling systems with patch panels and color-coding improving network organization and maintainability.

LANGUAGES

- **English:** Good
- **Arabic:** Native

MILITARY STATUS

- Exempted