

Mustafa Osama El-Tayeb

Junior Software Engineer | React, Angular, Node.js & Web Applications | Cairo, Egypt |

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PROFESSIONAL SUMMARY

Full-Stack Developer with experience building modern web applications using React, Angular, Node.js, Express, MongoDB, and MySQL. Skilled in designing scalable front-end interfaces and developing efficient backend services following clean architecture principles. Completed intensive full-stack training through ITI and contributed to AI-integrated academic projects, including a Siemens-sponsored graduation project. Strong foundation in data structures, algorithms, testing methodologies, and software engineering best practices.

CORE SKILLS

- **Backend & Databases:** Node.js, Express.js, Nest.js, MongoDB, MySQL, REST APIs.
- **Frontend:** Next.js, TypeScript, React, Angular, Tailwind CSS, Bootstrap, Sass, MUI, PWA.
- **Programming & Problem Solving:** C, C++, JS, Data Structures, Algorithms, OOP, Design Patterns
- **Testing & DevOps:** Unit Testing, Docker, Git, GitHub, Vercel.
- **Additional Knowledge:** UI/UX Fundamentals, Version Control, Generative AI & RAG

PROFESSIONAL EXPERIENCE & INTERNSHIPS

MEARN Full-Stack Trainee | Information Technology Institute (ITI). *Jan 2026 – Jun 2026*

- Developed full-stack web applications using MongoDB, Express.js, React, Angular and Node.js.
- Implemented RESTful APIs and integrated frontend interfaces with backend services.
- Applied Git and GitHub workflows for collaborative development and version control.
- Worked with database design, authentication mechanisms, and modern web development practices.
- Explored AI-assisted development workflows and integration techniques.

Web Development Trainee | Cairo Airport Company. *Jan 2024 – Feb 2024*

- Participated in developing web applications using modern frontend and backend technologies.
- Worked with database integration and version control systems.
- Contributed to building responsive user interfaces and Loading Pages.
- Gained practical experience in professional software development environments.

Networks & CCNA Fundamentals Trainee | Cairo Airport Company. *Jul 2022 – Aug 2022*

- Studied network infrastructure, administration, and system management concepts.
- Worked with networking fundamentals, routing, switching, and connectivity troubleshooting.
- Learned enterprise networking practices and data infrastructure management.
- Developed foundational knowledge of network security and administration.

COURSES & CERTIFICATES

- Google Build with AI | [Certificate](#)
- MEARN Full-Stack | Information Technology Institute (ITI) | [Certificate](#)
- PHP Full-Stack | Information Technology Institute (ITI) | [Certificate](#)
- Web Development | Cairo Airport Company | [Certificate](#)
- Networks and CCNA Fundamentals | Cairo Airport Company | [Certificate](#)
- Object-Oriented Data Structures in C++ | University of Illinois | [Certificate](#)
- HTML, CSS, and JS for Web Developers | Johns Hopkins University | [Certificate](#)

GRADUATION PROJECTS

Intelligent Heritage Explorer - Sponsored By **SIEMENS**

- Developed an AI-powered tourism platform consisting of web and mobile applications.
- Designed features enabling tourists to discover historical locations using intelligent AI recommendations and 3D Models.
- Collaborated within a multidisciplinary team of 13 members across frontend, backend, mobile, and AI tracks.
- Achieved **A+** evaluation for the project.
- [Demo](#) | [Source Code](#)

SUFRA - Homemade Food Ordering Platform - **ITI**

- Developed a full-stack food ordering platform connecting home-based cooks with customers through a modern web application.
- Built responsive user interfaces using React, Tailwind CSS, and modern frontend development practices.
- Built AI Agents creating brands for Chefs, and calculating calories for meals.
- Implemented backend APIs using Express and business logic for authentication, order management, food listings, and user profiles.
- Designed database structures to support menus, orders and customer interactions.
- [Demo](#)

PUBLICATIONS

"Intelligent Heritage Explorer. " ITC Egypt Conference 2024. (Paper #1571008454)
Co-author of a research publication presenting the Intelligent Heritage Explorer platform and its AI-driven tourism experience.

EDUCATION

B.Sc. Computer and Systems Engineering.
Faculty of Engineering, Ain Shams University *Sep 2019 – May 2024*

LANGUAGES

Arabic: Native.

English: Fluent

German: Good