



Mohamed Elassyouty

Software Developer Engineer



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Objective

Experienced and creative software developer. Passionate about problem-solving, innovation, and building scalable applications. Dedicated to writing clean, maintainable code and collaborating effectively to meet project goals and exceed expectations in dynamic, fast-paced environments.

Education

BRITISH SCHOOL AL REHAB | OCT 2004 – JUN 2017

- **IG System:** Grade 97%

GERMAN UNIVERSITY IN CAIRO | OCT 2018 – JUN 2023

- **GPA- Media Engineering Technology:** Grade 1.53 (Excellent)
- **Bachelor- Media Engineering Technology:** Grade A+

Professional Experience

- **MASSIVE SCALABLE APPS TEACHING ASSISTANT | GERMAN UNIVERSITY IN CAIRO | FEB 2025 – JUL 2025**

Taught a course on designing, building, and maintaining massively scalable web applications. This course provides hands-on experience in system architecture, Spring Boot development, containerization with Docker, database management (SQL & NoSQL), caching strategies, design patterns, micro-services, Kubernetes, and CI/CD pipelines.

- **AI & MACHINE LEARNING DATA SCIENTIST | DIGITAL EGYPT PIONEERS INITIATIVE | OCT 2024 – MAR 2025**

Completed a comprehensive program focused on artificial intelligence and machine learning, gaining hands-on experience in data analysis, model building, and algorithm development. Acquired knowledge in supervised and unsupervised learning, neural networks, and data preprocessing techniques to drive insights and support data-driven decision-making.

- **WEB DEVELOPER | MILITARY SERVICE | FEB 2024 – FEB 2025**

Developed and maintained internal web applications using Oracle APEX for the military during my military service, streamlining operations and enhancing user experience. Gained valuable experience in utilizing Oracle APEX for rapid application development in a fast-paced, dynamic environment.

- **DATABASE TEACHING ASSISTANT | GERMAN UNIVERSITY IN CAIRO | OCT 2023 – FEB 2024**

Assisted students in designing and implementing databases. This included creating Enhanced Entity-Relationship Diagrams (EERDs), developing databases with SQL for backend functionality, and building user-friendly interfaces using Visual Studio Web forms for the front end.

- **FRONTEND WEB DEVELOPER | TALENTS DIGITAL SERVICES INTERNSHIP | JUL 2022 – SEP 2022**

I utilized the MUI library for responsive components, designed HTML with styled-components for modularity, and translated Figma designs into pixel-perfect CSS to create a user-friendly interface.

Projects

- **ONLINE ASSESSMENT TOOL | BACHELOR PROJECT | JAN 2022 – JUN 2022 | [Info](#)**

- **MEDICAL APP FRONTEND** | YDS INTERNSHIP | **JUL 2022 – SEP 2022** | [Certificate](#)
- **SHOPIFY E-COMMERCE WEBSITE** | FREELANCING | **DEC 2024 (3 weeks)** | [devotee-eg.myshopify.com](#)
- **ORACLE APEX WEBSITES** | MILITARY SERVICE | **FEB 2024 – FEB 2025**

Programming & Development Skills

RECENT SKILLS

- Spring Framework
- Spring Boot
- Spring Security
- Spring
- Docker
- Docker Compose
- Docker Networks
- Docker Volumes
- Docker Image
- Docker Files
- Containerization
- Load Balancing
- NGINX
- Java
- Maven
- CRUD
- IntelliJ IDEA
- Dependency Injection
- Junit
- Testing
- SQL Databases
- PostgreSQL
- MongoDB
- NoSQL
- Distributed Databases
- Caching
- Design Patterns
- Micro-services
- Message Queue
- Kubernetes
- Ci/CD Pipeline
- Software Deployment

PROGRAMMING LANGUAGE

- Java
- Docker
- Maven
- JavaScript
- Python
- C++
- C#
- C
- Embedded C
- SQL

FRONTEND DEVELOPMENT

- HTML
- CSS
- React.js

BACKEND DEVELOPMENT

- Spring Boot java
- Node.js
- ASP.NET

DATABASE MANAGEMENT

- Microsoft SQL Server
- PostgreSQL
- MongoDB
- Oracle

AI, DATA SCIENCE & MACHINE LEARNING

- Pandas
- NumPy
- Scikit-learn
- Matplotlib

E-COMMERCE PLATFORMS

- Shopify
- Wix

Languages

- **ENGLISH** | Fluent
- **GERMAN** | Elementary
- **FRENCH** | Elementary
- **ARABIC** | Native

Key Qualities

- **CURIOUS & ENGAGED:** Actively interactive and committed to continuous learning.
- **INNOVATIVE PROBLEM-SOLVER:** Thrives on challenges with a solution-oriented mindset.
- **RESILIENT & ADAPTABLE:** Adjusts to changing environments and overcomes obstacles.

Core Strengths

- **LIFELONG LEARNER AND TEAM PLAYER:** Committed to continuous growth and fostering collaborative environments.
- **STRATEGIC PROBLEM-SOLVER:** Tackles challenges with innovative thinking and focusing on effective solutions.
- **RESILIENT AND VERSATILE:** Thrives in dynamic settings and adapts swiftly to overcome obstacles.

Additional Insights

“A passionate lifelong learner with an enthusiasm for sports, music, and exploring new destinations. Driven by a constant desire to tackle new challenges in technology and personal development.”