

Mohamed Emad Abdo

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Education

Cairo University

Giza, EG

Bachelor's in computer science, Software Engineering

Oct. 2021 – July 2025

Experience

Future Employee for The Digital Era

July. 2023 – Aug. 2023

CIB Bank

3 weeks Online training

- Learnings on Banking Fundamentals: banking operations, services, and regulatory environments
- Learned About Financial Inclusion and Sustainability

Projects

Student Management Web App

Tech Stack: React + Vite, Node.js, Express, Sequelize, PostgreSQL, Ngrok

- Developed a full-stack web app used to register and manage over 100+ student records, with features for attendance tracking, course enrollment, and grade monitoring.
- Designed and deployed 10+ RESTful API endpoints with >95% unit test coverage, enabling seamless CRUD operations for student and course data.
- Enabled student functionalities such as signup, course enrollment, attendance marking, and grade tracking with a visual chart representation.
- Implemented an admin panel for reviewing student attendance, adding grades, and messaging parents via WhatsApp API.
- Streamlined API testing using Ngrok, reducing debugging time by 30% during development.

Package Tracking and Courier Management Web App

Tech Stack: React, Node.js, Express, PostgreSQL, Docker, GitHub, Red Hat OpenShift

- Built a full-stack web application where users can sign up as either **customers** or **couriers**, enabling role-based access.
- Enabled real-time tracking for 50+ packages with ETA predictions and courier status updates, improving delivery transparency and reducing customer queries by 40%.
- Architected the frontend and backend as separate GitHub repositories, with the backend managing authentication and package data using PostgreSQL.

- Containerized the entire app using Docker and deployed it on **Red Hat's OpenShift** cloud platform.

Flight Booking Web App

Tech Stack: PHP, MySQL, HTML, CSS

- Developed a dynamic flight booking system supporting role-based functionality for users and airline companies.
- Implemented user features including secure signup/login, browsing available flights, and booking management.
- Built admin panel for companies to register, log in, and manage flight data (add/remove flights) with real-time database updates.
- Designed a responsive front-end interface using pure HTML and CSS to ensure accessibility across desktop and mobile browsers.
- Managed user and flight data using MySQL, handling booking records for up to 100+ test users during development.

Technical Skills

Programming Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: React, Next, Tailwind, Node.js, Junit, Springboot

Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Languages: Arabic (Native), English (Fluent)

Soft Skills

1. Problem Solving & Critical Thinking
2. Effective Communication
3. Team Collaboration
4. Time Management
5. Adaptability & Continuous Learning
6. Responsibility and Accountability

Certificates

Certificates link: <https://github.com/Mohamed-Coder2/Certificates>