MOHAMED EMAD

TEACHING ASSISTANT
SOFTWARE ENGINEER

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📍 Minya El-Qamh, Sharquia, Egypt

in mohamed-emad126

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SUMMARY

Dedicated Teaching Assistant with expertise in programming languages (Kotlin, Java, C++, Python), and a proven track record in guiding students through diverse subjects, I successfully completed the pre-master year and actively participated in numerous workshops at the university, showcasing a commitment to academic excellence and continuous learning.

EDUCATION

Faculty of Computers and Information, Zagazig University
2016-2020
grade: **_Excellent_**

Pre-Master 2022-2023: **Completed**

EXPERIENCE

Teaching Assistant (2021 - present)
- Department of Operations Research, Faculty of Computers and Informatics, Zagazig University,

TAUGHT DOMAINS

- Assembly Language **_MASM_**
- OOP **_C++_**
- Intro to Data Science **_(Python)_**
- Math III
- Machine Learning **_(Python)_**
- Logic Design

LANGUAGES

Arabic
Native or Bilingual Proficiency
English
Full professional proficiency

RESEARCH

Research area: MCDM, Neutrosophic, Fuzzy, Optimization

1. An Intelligent Multi-Criteria Decision-Making Model for selecting an optimal location for a data center: Case Study in Egypt
2. A Multi-Criteria Decision-Making Analysis for COVID-19 in Public Health under Neutrosophic Set: Case Study

TECHNICAL SKILLS

Automation testing

Python, Appium, Selenium, Python-requests, Postman, Allure.

Android

Kotlin, Java, XML, Jetpack COMPOSE, SOLID Principles, MVVM, MVC, JSON, Retrofit, OkHttp, Restful APIs, 3rd party libraries, Flow, Coroutines, Dagger-Hilt, ExoPlayer, Navigation, RXjava Component, Room, MDC.

Backend:

kotlin, ktor, MySql

ANDROID PROJECTS

FCI Attendance (2024)

Android app simplifies student attendance tracking via QR codes on Android, leveraging Google Cloud Project and Sheets API for real-time updates.
Built with: Kotlin, Google Play Services Code Scanner, Room, Coroutines, MVVM, Flow, Google Sheets API , NDK, Bouncy Castle, Dagger-Hilt, WorkManager.

Android: MoviesMix (2023)

Android App that allows users to explore the latest movies, get detailed information, watch trailers, and download posters.
Using: *Kotlin, Retrofit, Room, Coroutines, OkHttp3, MVVM, Flow, Repository Pattern, NDK, Navigation, Dagger-Hilt, WorkManager, coil, Motion system, SplashScreen, ExoPlayer.*

CERTIFICATES

HCI - Cloud Computing Training

Kotlin for Java Developers

PROBLEM-SOLVING: ECPC Contestant (and Local)

ITI - UI/UX (150 Hrs)