Ahmed Adel Hamza
(Junior iOS Engineer)

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Personal information:

- **Full Name:** Ahmed Adel Abd El Hafez Hamza.
- **Date of Birth:** August 16, 2003.
- **Place of Birth:** Cairo, Egypt.

- **Marital Status:** Single.
- **Nationality:** Egyptian
- **Military Status:** Exempted.

Education:

Bs *of Computer Science, Modern Academy.*

- *Major: CS.*
  Undergraduate –Senior

- *Overall Grade: Very Good with GPA 3.5*
  Jul, 2025 (expected)

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4 Months Diploma, Digital Egypt Pioneers Initiative (DEPI) mobile app development track(Flutter & Native Android)
July 2024 – October 2024

Experience:

➢ **IOS Development Internship at**

ITI , Smart Village   July 2024 – October 2024

- Developed iOS applications using Swift and best practices in mobile app development.
- Worked with UI frameWorks(UIKit , SwiftUI) Developed and animations .
- Gained experience with RESTful API integration for data exchange between client and server.
- Worked with XCTest & Unit Testing and RX Swift.

➢ **IOS Development Internship at**

Bank Misr   July 2024 - August 2024

- Developed iOS applications using Swift and best practices in mobile app development.
- Worked with frameworks UIKit.
- Worked with UserDefaults, Keychain, and Core Data for data storage and management.
- Worked with Cocoapods , Core Data , Networking , Architecture Patterns(MVC,MVP,MVVM) .
- Unit Testing , Git , Agile Project Management .

➢ **iOS Development Internship at**

The Sparks Foundation   Sep 2023 - Oct 2023

- Create many Applications as Basics Bank app, social media.
- Worked with UI Kit Framework.
- Used MVVM and MVC to organize projects.

Certificates:

iOS Architecture Design Patterns from Mahara Tech	2024
Programming Fundamentals in Swift with Meta from Coursera	2024
iOS Development Tuwiq Academy	2023
iOS Application Development using Swift from Mahara Tech	2023
Mini ITI Diploma with Route	2022

Projects:

➢ Ardent - Chat App (Flutter App):

- Developed a cross-platform chat app for iOS and Android using Flutter.
- Integrated Firebase Authentication, Firestore for real-time messaging, and Firebase Cloud Storage for handling media files (text, images).
- Implemented a theme switcher for Dark and Light modes, enhancing the user experience.
- Managed the app's state efficiently using Cubit.
- Focused on a responsive user interface with custom chat bubble designs for sent and received messages..
- Used Hive for offline data storage, enabling efficient and lightweight local caching of messagesand user preferences.
- Video of Application : https://drive.google.com/file/d/1ncnHNs-KOdP81sN8Rm1erfbWsgkkuz_Q/view?usp=sharing

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➢ DishDash Restaurant (iOS App):

- As final project for ITI , Developed a Restaurant App to help users order and choose items from the menu .
- Created login and sign-up screens with API integration to connect with a backend for user authenticatio.
- Utilized Alamofire for efficient API calls .
- UIKit framework for building an intuitive and responsive user interface.
- Added animations to enhance user interaction.
- Followed MVVM architecture to ensure clean code organization and separation of concerns.
- Video of Application : https://drive.google.com/file/d/11r05XkrCWn6X3jp93LydNTuLipHur3E4/view?usp=share_link

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➢ Speedo Transfer (iOS App):

- Speedo Transfer is a Banking App for Final project for Banque Misr internship , made to add Bank Account , credit card , to transfer money.
- User can show his last transactions to some people in favorites to easy access.
- Created UI using Ui Kit framework.
- Develop Networking using URL Session
- Implement the MVP architecture pattern.
- Integrate local notifications, biometric authentication, Add animations , Using OTP to enhance Security.
- Video of Application : https://drive.google.com/file/d/1W-y_EciIPbfdunuBAoR6lUUW4R5sdFua/view?usp=sharing

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➢To-do List (iOS App):

- App allow user to Add, Read, Update & Delete (CRUD) the To-do.
- Create a user interface by using Ui Kit framework.
- Create a Database using Core Data to store the To-dos.
- Using MVC Architecture.
- Very good-looking Ul and responsive Ul, work for mobiles as well as tablets.

➢ Me-True Pay (iOS App):

- Me-true pay is a mobile application for exchange the physical metro tickets to remotely payment way.
- Make user deposit & withdraw in account wallet by a deferent way (Bank transfer, InstaPay, Vodafone cash).
- Users allow to scan QR-Code to payment his trip fees (instead of ticket).
- Create a Database using firebase.
- Using MVC Architecture.

- Very good-looking UI and responsive UI, work for mobiles as well as tablets.
- Video of Application: https://drive.google.com/file/d/1YHTJVb6-0uuLN-Z0rzd7K1hmjS5tw5EN/view?usp=drivesdk

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Weather (iOS App):

- App allow user to show the weather state and temperature today for many countries.
- Create a user interface by using Ui Kit framework.
- Using Alamofire in API for calling open weather API.
- Using MVC Architecture.
- Very good-looking UI and responsive UI, work for mobiles as well as tablets.

Client - Server Chat Application (Java):

- Create a chatting Program Desktop app using Java Socket to send and receive data (text, image, audio, links).
- Using Object-Oriented Programming concept.
- Create a user interface by Java Swing GUI (Event Handling).
- Create a Database server by using SQL Server to store a data in a Chat.
- Create a private mode that does not store a data in a chat.
- Connected the database to the program.

Courier Route System (Java):

- Create a Courier Route System Desktop app using Dijkstra's Algorithm as Google Maps.
- Create user interface by JavaFX (Event Handling).
- Initialize the graph with nodes representing delivery locations and weighted edges representing distances between locations.
- Create an empty HashSet to keep track of visited nodes.
- Create an empty HashMap to store the tentative distances for each node.

Video Player Program (Java):

- Create a Desktop app by using Double LinkedList to store a video.
- Using Object-Oriented Programming concept.
- Create user interface by JavaFX (Event Handling).
- In this program can Play, Add, Search, and Delete a Videos.

Conceptual Knowledge:

- Very good understanding of the Object-Oriented Programming Concepts.
- Very good understanding of Database designing concepts.
- Very good understanding of Data Structure & Algorithms design.
- Good understanding of Solid Principles.
- Experienced with REST API Design and Implementation
- Strong understanding of HTTP methods and status codes.

Skills:

Programming Language:

- Swift
- Dart
- Java
- Python
- Prolog
- Kotlin
- C++
- C#

Database:

- Firebase
- SQL Server
- SQLite
- Core Data

Technical Skills:

• Ui frameworks (UIKitI).

• Architecture Pattern (MVC, MVVM,MVP)
• CocoaPods
• XCTest & Unit Testing.

•Clean Code
• Version control(Git)
• Socket.IO
• Rmi
• JavaFx
• Java Swing GUI

Language:
- **Arabic:** Mother tongue
- **English**: Very Good

Volunteering Experience:

➤ **Tech Mentor (YouTube Channel)**
TahtEl Jazr Youtube Channel   2021 – till now

- Founder & Instructor of Youtube Channel.
- Produced and hosted engaging tech-related content for a growing audience on YouTube.
- Created informative videos and podcast episodes covering topics such as software development, mobile app technologies, and the latest tech trends
- Provided mentorship and guidance to students learning Programming and math courses.
- Teached Swift, Data Structure , Math(100K View) and many other courses.
- Created and produced educational content to make complex topics accessible to beginners.
- Link of channel : https://youtube.com/@Taht_ELJAZR