

Mostafa Mahmoud

Software Engineering | Flutter Developer | Back-End Developer | Artist

☎ +201014414536 ✉ wwwmostafagmer100@gmail.com 📍 Tanta,Egypt

🌐 Mostafa Mahmoud 🔗 Sensei-Dev 🔄 MostafaSensei106

👤 SUMMARY

I am a college student with a profound passion for software development and digital art, specializing in **Python** and **Flutter** to create robust applications that prioritize stability, security, and user satisfaction. My expertise includes **computer vision** projects utilizing advanced techniques to address complex challenges, complemented by a strong interest in **Android systems** that fuels my commitment to delivering seamless mobile experiences. As an independent Flutter developer, I have successfully executed a diverse array of projects, showcasing my work on platforms like **GitHub**. One of my standout achievements is the development of the **Tadamon App**, a sophisticated tool designed to empower users in identifying unreliable companies and products. Additionally, my experience with the **Lothga App** has further enriched my skill set. I contributed to designing a comprehensive data-sharing method that allows multiple Flutter applications to operate simultaneously. This initiative not only enhances efficiency but also fosters collaboration among various applications, thereby improving the overall user experience. As a highly skilled and experienced software developer, I possess a deep-rooted passion for crafting robust and user-centric applications. My expertise lies in leveraging Python and Flutter to create innovative solutions that prioritize stability, security, and user satisfaction. My proficiency extends to computer vision projects, where I employ advanced techniques to tackle intricate challenges. Furthermore, my keen interest in Android systems drives my commitment to delivering seamless mobile experiences. Throughout my tenure as an independent Flutter developer, I have successfully executed a diverse portfolio of projects, showcasing my work on reputable platforms such as GitHub. One notable accomplishment is the development of the Tadamon App, a sophisticated tool designed to empower users in identifying unreliable companies and products. Additionally, my involvement with the Lothga App has further enriched my skill set. I played a pivotal role in designing a comprehensive data-sharing method that enables multiple Flutter applications to operate concurrently. This initiative not only enhances efficiency but also fosters collaboration among various applications, ultimately elevating the overall user experience.

Areas of Excellence

- **Software Engineering**
- **Flutter Development**
- **Back-End Development (Fast API)**
- **AI & Computer Vision (OpenCV)**
- **Digital Art (Krita)**
- **Team Building**
- **Facilitating win-win situations**, especially when there's an expectation of loss for one party involved.
- **Mentoring and nurturing growth in others.**

WORK EXPERIENCE

Lothga

Flutter Developer 

08-2024 – present
Jeddah, Saudi Arabia, SA

Lothga is a pioneering digital platform dedicated to enhancing communication skills, specifically tailored for individuals facing speech challenges. Through our innovative and user-friendly application, Lothga has empowered over **46,000 users** across the Arab world, offering engaging exercises and expert support. The platform features more than **12,000 tailored activities** designed to boost confidence and facilitate fluent speech. Committed to inclusivity, Lothga serves both children and adults, creating a supportive environment that transforms the journey to effective communication.

My Role as a Developer

During my tenure as a developer on the **Lothga Tablet project** and the **"Question Tools App" game**, I was instrumental in several key areas:

- **Database Management:** I designed, created, and managed the database, ensuring efficient data storage and retrieval. This involved meticulous attention to detail to maintain data integrity across the platform.
- **Data Sharing and Integration:** I tested data sharing between different applications, implementing **uni links** for deep linking, which allowed users to seamlessly navigate between applications. Additionally, I created a **content provider** to facilitate data sharing, ensuring smooth interactions across apps.
- **Audio System Integration:** I integrated a robust sound system into the game, enhancing user engagement through immersive audio playback features. This included developing core services that supported the application's functionality.
- **Game Logic Development:** I organized the game logic within the **Flutter framework**, ensuring efficiency and scalability. This encompassed designing and coding the logic for a photo classification game, as well as enabling a shared database accessible by multiple independent applications to ensure data consistency and optimize resources.


Through these contributions, I played a crucial role in delivering a well-structured and high-performing application, significantly enhancing user experience and engagement.

Freelancer

Flutter Developer

10-2022 – present | Tanta, Egypt

In my role as an independent Flutter developer, I have successfully worked on a variety of projects, showcasing my skills and expertise on platforms like **GitHub** to present my portfolio to potential clients and individuals.

One of my standout projects is the **"Tadamon App" **, a powerful tool designed to empower users by helping them identify untrustworthy companies and products that support specific agendas.

As an Independent Flutter Developer

As an independent Flutter developer, I have successfully contributed to a variety of projects, showcasing my skills and expertise on platforms like **GitHub** to present my portfolio to potential clients and individuals.

One of my standout projects is the **"Tadamon" app**, a powerful tool designed to empower users by helping them identify untrustworthy companies and products that support specific agendas.

Key Features of the Tadamon App:

- **Barcode Scanning & Product Search:** Users can easily scan barcodes or search for products and companies, leveraging advanced image scanning techniques powered by **machine learning** to gain insights into their practices and affiliations.
- **Dark/Light Mode:** The app includes customizable dark and light themes, allowing users to select their preferred viewing mode for enhanced comfort and accessibility.
- **Offline Support:** Users can access information without requiring an active internet connection, ensuring usability in various environments.
- **User Activity Tracking:** This feature enables users to monitor their interactions within the app, enhancing their overall experience.
- **Reporting Tools:** Users can report findings, contributing to a community-driven effort to promote transparency and accountability.
- **Aesthetic UI Interfaces:** The application is designed with a focus on beautiful and intuitive user interfaces, ensuring that users enjoy a seamless and engaging experience while navigating through the app.

This project not only reflects my commitment to developing meaningful and impactful applications that serve a greater cause but also showcases my technical expertise in **Flutter**, **mobile development**, and **UI design**.

Digital Artist

05-2022 – present | Tanta, Egypt

As a Freelance Artist

I have honed my skills as a freelance artist, specializing in the **Japanese anime style**, which is one of my personal favorites. My artistic range includes:

- **Character Illustrations:** Designing vibrant and expressive characters that capture the essence of the anime aesthetic.
- **Full Scene Designs:** Creating dynamic action scenes that bring stories to life.

I utilize **Krita** to produce high-quality artwork with intricate details, ensuring that each piece reflects my meticulous attention to detail and deep understanding of the anime style. Additionally, I focus on:

- **User Interface Design:** Crafting beautiful and distinctive interfaces that enhance user experience and embody my creative vision. My designs reflect high standards of craftsmanship and creativity.

Alongside my anime illustrations, I also specialize in designing **company logos**. I collaborate closely with clients to create symbols that resonate with their brand identity, ensuring that each design is memorable and distinctive.

My dedication to delivering high-quality work has enabled me to achieve my creative goals and exceed client expectations. For a deeper look at my work, please explore my **portfolio** [↗](#).

PROJECTS

Tadamon App [↗](#)

05-2024 – present

Flutter

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XO-Game

05-2024 – 05-2024

Flutter

This is a simple **XO** game developed using **Flutter**, designed for both fun and competition.


Features

- **Multiplayer Mode:** Play against another player for head-to-head challenges.
- **AI Opponent:** Engage in a challenging game against an intelligent AI.
- **Clean and Intuitive User Interface:** Enjoy a user-friendly design that enhances the gameplay experience.
- **Score Tracking:** Automatically tracks and displays player scores for easy reference.
- **Dark and Light Theme:** Choose between dark and light themes for a personalized gaming experience.

Sensei-Dev

09-2024 – 10-2024

TypeScript

Sensei-Dev  , my personal portfolio that highlights my journey in **Software Development** and creative problem-solving. This portfolio serves as a testament to my skills, projects, and contributions to the open-source community. Explore an interactive and vibrant showcase of my work!

Features

Here are some standout features of this portfolio:

- **Stunning Visual Design:** Aesthetic and engaging design that captivates users.
- **Fully Responsive Layout:** Optimized for seamless performance across all devices.

- **Interactive Project Showcase:** Dynamic presentations of my projects, allowing for an immersive experience.
- **Image Processing:** Utilization of advanced techniques for enhanced image handling and manipulation.
- **Interactive Landing Section:** Engaging introduction to my work, designed to draw users in.
- **Specialized Sections:** Dedicated areas for various skills and projects, showcasing versatility and expertise.
- **Customizable Interface:** User-friendly and adaptable interface, allowing for personalized user experiences.

Ko-Asobi106 

05-2024 – present

Python

Ko-Asobi, meaning "little game" or "play" in Japanese, is a collection of simple yet engaging games developed using Python. By integrating computer vision technology, Ko-Asobi offers an interactive and modern gameplay experience that is both fun and educational, suitable for players of all ages. The unique twist of Ko-Asobi lies in its use of the **OpenCV** library to control the games through gestures and movements captured by your webcam.

Features

Game Collection

- **Classic Snake:** Control the snake using hand gestures to navigate and eat food.
- **Pong:** Manage the paddle with your hand to hit the ball and score points.

Computer Vision Integration

- **Gesture Recognition:** Track and recognize hand movements with OpenCV, allowing for intuitive game controls.
- **Facial Expression Detection:** Incorporate facial expressions as game triggers (e.g., smiling to start a game), enhancing the overall gaming experience.

Educational Aspect

- **Learning Python:** Each game is implemented as a simple Python script, making it ideal for beginners to learn and grasp basic programming concepts.
- **Introduction to Computer Vision:** Gain hands-on experience with OpenCV, a powerful library for real-time computer vision applications.

User-Friendly Interface

- **Easy Setup:** Follow straightforward instructions to set up and run the games on any system with Python installed.
- **Interactive Tutorials:** Access step-by-step guides to help you get started with both the games and the computer vision controls.

Customizable

- **Open Source:** The code is available for modification, allowing users to add new features or games according to their preferences.
- **Community Support:** Join a community of developers and enthusiasts to share ideas, improvements, and collaborate on the project.

Development Status

Ko-Asobi is currently under development, with exciting updates planned for the future. Upcoming features include:

- **New Games:** Additional simple games to expand the collection and keep the gameplay fresh and engaging.

- **Network Play:** The ability to play games over a network, enabling users to challenge friends and family remotely.
- **Enhanced Computer Vision:** Improvements in gesture and facial recognition for more responsive and accurate controls.

Sensei

06-2023 – 06-2023

Html, Css, Js

website, a dedicated platform showcasing my work as a programmer. This site is your premier destination for exploring my skills, services, and creative projects, all presented within a clean and user-friendly interface.

Key Features

About Me

- **Journey:** Discover my journey as a programmer, including my experiences, professional background, and key milestones that have shaped my career.

Services

- **Custom Software Development:** Explore the range of custom software development services I offer, tailored to meet diverse needs.
- **Consulting:** Learn about my consulting services, designed to help you tackle technical challenges and enhance your systems.

Skills

- **Technologies:** Review the list of technologies I have mastered, including a variety of programming languages and tools.
- **Expertise:** Highlighting my expertise in software development, machine learning, and computer vision.

Languages

- **Multilingual Proficiency:** Information about my proficiency in English, Japanese, and Arabic, enabling effective communication and collaboration across diverse projects.

Portfolio

- **Creative Works:** A gallery showcasing my creative projects, reflecting my talent and innovative approach.
- **Project Highlights:** Detailed examples of key projects that demonstrate my skills and achievements.
- **Legacy Website:** An overview of my previous project, "Legacy," which served as a foundation for my growth and development in the programming field.

Website Overview

This website is designed to provide a straightforward yet effective platform for understanding my capabilities, services, and creative achievements. It aims to give visitors a comprehensive view of my work and how I can contribute to their projects.

Matcha Cafe Mangment System

12-2023 – 01-2024

The **Matcha Cafe Management System** is a fundamental management tool developed during my second year of college. This system is specifically designed for small cafes, focusing on essential operations to streamline core functionalities.

Features

Employee Data Management

- **Add, Modify, and Delete:** Effortlessly manage employee information to keep records up to date.
- **Details:** Maintain essential records such as names, contact details, and roles.

Payroll Calculation

- **Wages Calculation:** Automatically computes employee wages based on recorded hours and data.
- **Simplicity:** Provides straightforward management of employee compensation, ensuring accuracy and efficiency.

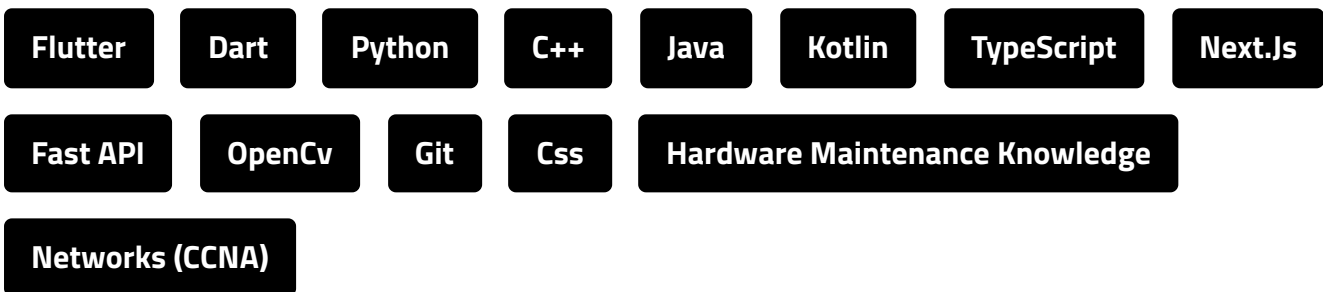
Inventory Management

- **Track Inventory Levels:** Keep precise records of stock items to avoid shortages and overstocking.
- **Update Stock:** Easily add and update inventory without complex procedures, making stock management hassle-free.

Overview

The **Matcha Cafe Management System** is designed to offer a simple and effective solution for managing the essential aspects of cafe operations. Its user-friendly interface is ideal for cafe owners and managers who require a basic yet efficient system to handle their business operations seamlessly.

TECH SKILLS



EDUCATION

Computer Science

10-2022 – 05-2026 | Benha, Egypt

Benha University 

As a **Computer Science** student, I have gained a solid foundation in programming and software development. In addition, I work as a **student assistant**, where I support my peers in their studies and help them navigate complex concepts. This role has enhanced my leadership and communication skills, allowing me to create a collaborative learning environment. I am dedicated to making a positive impact in my college community while continuing to grow in my field.

LANGUAGES

