

# **Hazem Ragab Mohammed**

Full-Stack Software Engineer

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## **Objective**

Software Engineer with a strong foundation in full-stack development and a deep passion for problem solving and algorithms, specializing in efficient APIs and responsive frontends. Eager to leverage modern technologies to build robust, scalable applications.

## **Education**

**B.Sc. in Computer Science - Suez University (2023)**

Graduated first in class with a 3.91/4.0 GPA.

**Web Development Using .Net – ITI (2021)**

## **Professional Experience**

### **AskCity – Flutter, Back4App (Parse), PHP, Firebase, Agora [Freelance]**

- Developed a cross-platform mobile app using Flutter with a custom PHP admin dashboard. Integrated Back4App Parse API for backend management and user data handling.
- Implemented real-time features, including video calls and live streams with Agora, chat with Back4App Realtime Database, and phone number authentication with Firebase OTP.
- Built core social app logic, including post creation, reels, feeds, user interactions and Google Maps integration for location-based features.

### **Charity-Donations – React, Flask, YOLO [Freelance]**

- Built a full-stack web app using React, Flask, implementing a secure role-based system with distinct access levels for users, charities, admins, and super-admins.
- Collected and labeled custom dataset, trained a YOLO object detection model, and integrated it into the app to enable automated validation of donation documents via image uploads.
- Enabled secure online payments using PayPal integration, streamlining the donation process for both donors and recipient organizations.

### **W DE MODA - Laravel, Nuxt [Freelance]**

- Contributed to both frontend (Nuxt.js) and backend (Laravel) development, implementing key features across the main app and admin dashboard.
- Integrated social authentication (Google, Facebook) and implemented OTP verification for orders using MSG91 to improve security and user experience.
- Integrated J&T Express API into the application to enable seamless e-commerce logistics and delivery tracking

### **NAQAA - React, Refine, Flutter [Freelance]**

- Developed the mobile app using Flutter, the web client with React, and the admin dashboard using Refine, ensuring consistent and responsive user experience across

platforms.

- Implemented authentication features and essential e-commerce logic including product browsing, cart management, and order flow.

### **Quantum - React, Flask [Freelance]**

- Built a custom admin dashboard using React and Flask to allow admins to easily modify and manage website content dynamically.
- Developed the public-facing website to display the company's services and information with a clean, responsive user interface.
- Ensured smooth API integration between the frontend and backend for real-time content updates and admin control.

### **Memory Mate – Flask, PostgreSQL, Redis, GIS [Academic]**

- Designed and implemented the app's core backend logic and RESTful APIs using Flask, ensuring scalability and clean integration with the frontend.
- Used PostgreSQL with the PostGIS extension to enable geo-tagging and location-based queries, enabling features such as finding nearby friends.
- Integrated Redis for caching and performance optimization, reducing response time for frequent queries and enhancing overall app speed.

### **BeFriends - .NET CORE, Angular [Independent Project]**

- Developed a complete social app backend using .NET CORE, implementing core features like user profiles, posts, comments, likes, and friend management.
- Developed a responsive Angular frontend, ensuring seamless user interactions and dynamic content updates.
- Integrated SignalR to enable real-time chat functionality, supporting live messaging and presence updates across users.

### **Skills**

- **Programming Languages:** C#, Python, JavaScript, SQL
- **Backend:** .NET CORE, Node.js, Express.js, Flask, Laravel
- **Frontend:** Angular, React.js, Next.js
- **Databases:** PostgreSQL, Microsoft SQL Server
- **DevOps & Deployment:** Docker, Nginx, GitHub Actions
- **Other:** Problem Solving, Redis, RTC, OOP, Clean Code

### **Certifications**

- [Algorithmic Toolbox - Coursera](#)
- [Introduction to Relational Databases in SQL – DataCamp](#)
- [Web Development Using .NET - ITI](#)
- [Version Control with Git - Coursera](#)
- [Object-Oriented Design – Coursera](#)
- [Responsive Web Design – Coursera](#)
- [Software Architecture – Coursera](#)
- [Intermediate Python - DataCamp](#)
- [Image Processing with Python Track – DataCamp](#)
- [Introduction to Data Science in Python - DataCamp](#)