

# MAHMOUD SAYED YOUSSEF KOTB



Phone: +201145557959  
Website: [MahmoudAlyosifySite.GitHub.io](https://MahmoudAlyosifySite.GitHub.io)  
[mahmoudalyosify.email@gmail.com](mailto:mahmoudalyosify.email@gmail.com)

Nasiriyah Al-Fateh Center  
ZIP / Postal: **71515**.  
Assiut, Egypt

## SUMMARY

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Passion for Probabilistic ML and Deep Learning | Software Developer(.NET&Angular) | Instructor at Udemy and YouTuber | Bioinformatics Fresh Graduated. I try to optimize every process I encounter. In other words, my job is to find ways to do existing tasks in a more (sometimes dramatically) efficient way. To that end, I study the role of historical data in making better optimization decisions, and dedicated Bioinformatics graduate with a strong foundation in programming, discrete mathematics, data analysis, and teaching. Proven track record as an Instructor at Udemy and a YouTuber, complementing technical skills with effective communication. Eager to contribute technical expertise and innovative problem-solving as a Software Engineering Intern at Microsoft.

## EDUCATION

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- Bachelor of Computer and Information Science  
Assiut University, Biomedical Informatics Major  
Graduation: Jul 2023  
GPA: 3.53/4

## TEACHING EXPERIENCE

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- Instructor | Udemy
- Taught "Discrete Mathematics for Computer Science in Arabic," "Probability, Graph Mining in Arabic," and "Statistics in Arabic" courses to over 7000 students.
  - Created engaging content, delivered comprehensive lessons, and received high ratings from students.
  - Effective communication skills in presenting complex technical concepts.

## TRAINING AND COURSES

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1. Android Mobile Development Course (30 hrs.) | iTi
  - Covered Android Studio, Java, XML, Firebase, and Google Maps API.
2. Introduction to SQL Server & C# Course (90 hrs.) | iTi
  - Covered database design, queries, stored procedures, triggers, functions, LINQ, and Entity Framework.
3. Introduction to Mearn Stack Development Course (60 hrs.) | iTi
  - Covered MongoDB, Express.js, React.js, and Node.js.
4. .NET Web Development Course (120 hrs.) | iTi
  - Covered ASP.NET MVC, Web API, Razor Pages, Blazor, SignalR, and Identity.
5. Full Stack Development Diploma (.Net & Angular) | Route Company
  - Obtained diploma from May 2023 to February 2024.

[Certificate from Microsoft in DEV210x: Introduction to C++](#)  
[Data-analysis using R by Children's Cancer Hospital Foundation 57357](#)

[DEV276x: Learn to Program in Java by Microsoft](#)

[What is Data Science? By IBM](#)

[Cisco Business IT Roadmap Specialist](#)

[Certificate from Johns Hopkins University in COVID-19 Contact Tracing](#)

[Microsoft Excel - Learn MS EXCEL For DATA Analysis](#)

[Microsoft Certified: Data Analyst Associate](#)

[Communication Skills: Be a Star Presenter on a Panels](#)

## **TECHNICAL SKILLS**

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### **Programming Languages:**

C, C++, C#, Python, R, MATLAB, Java, Dart

### **Front-End:**

HTML5, CSS, JavaScript

### **Database:**

SQL, MySQL, MongoDB

Version Control Tools:

Git, GitHub

### **.NET Framework:**

WinForms, ASP.NET, ADO.NET

### **Testing Tools:**

xUnit, NUnit, MSTest

### **Others:**

OpenGL using C++

My technical skills are distributed. I built my technical knowledge from the beginning on a strong foundation during a college study.

- I studied mathematics and then started studying an introduction to programming with C++ and applied many software projects and solved some problems solving on [Code forces](#) about 100 problems.
- I studied discrete mathematics The link between programming and mathematics, and my experience in programming increased after learning discrete mathematics. I explained it on my [YouTube channel](#) and created a course on Udemy called [Discrete Mathematics in Arabic](#).
- Then I moved to the second station, which is my learning of object-oriented programming (OOP) in C++, C#, and java. I applied it in many projects that you can see on [GitHub](#).
- I learned the basics of information systems and applied a project to the [Access program](#) to learn the basics of building databases.
- Then I moved and learned the principles of Data Structures and database using SQL language and I created many databases using SQL.
- I also learned statistics and probability and I prepared a course for it on Udemy and on YouTube then I learned data analysis using the R language and applied what I learned in two projects that you will find on GitHub entitled [ATM transactions](#), [USCB](#).

- I am currently learning visual programming using C# so that I can build an integrated program and I have applied what I learned in visual programming and designing some Windows form using C# and you will find them on [GitHub](#) and I also study computer drawing using OpenGL, and this is a [project](#) that I previously worked on using OpenGL.
- I learned software engineering to learn how to organize the process of building the right software and I did a really integrated project with my team with me in the college helping the student affairs staff in the college to run their work.

Finally, my work as a trainer at Udemy and my publishing of videos on my YouTube channel, I taught how to present my ideas and communicate them to the listener, and I learned video editing and design on Photoshop and creating my own presentations and explaining them in the videos that have been watched by about 250 thousand people at 2023.

### **COMPETITIONS AND AWARDS**

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1. First Place with White Hackers Team | College of Computers and Information, Assiut University
  - Science and Technology Content Industry Competition at the college level (2021-2022).
2. First Place in Smart Cities Hackathon | March 24-26, 2022
  - Developed a smart solution for monitoring vital signs of intensive care patients in hospitals.
  - Achieved first place across governmental, private, and national universities in Egypt.
3. First Place in Ideal Student Competition | College of Computers and Information, 2022-2023
  - Awarded the first place among students of the College of Computers and Information.
4. Finalist, ISEIC-2023 (The International Scientific and Engineering Innovation Competition)
  - Qualified Vitalism Project (Contactless Estimation of Vital Signs Using Real-Time Video) to the final round.
  - Competed against over 800 teams at the competition held at the Air Defense College in Alexandria.
5. Semi-Finalist, Microsoft Imagine Cup 2023
  - Vitalism Project qualified for the semi-finals of the global Microsoft Imagine Cup competition.

### **LEADERSHIP AND EXTRACURRICULAR ACTIVITIES**

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- Secretary of the Higher Scientific and Technological Committee of the Student Union at Assiut University for the academic year 2021-2022.
- Encouraged students to participate in scientific and technological activities.
- Supported scientific competitions, inventions, and innovations.
- Acted as a link between students and university administration.
- Received certificates from the university for successful student activities and services for the academic year 2021-2022.

- Honored by external institutions for outstanding efforts in making student activities successful.
- Chairman of the supreme Scientific Committee of Assiut University Students Union for the year 2022.
- Ambassador for the Institute of Information Technology (ITI) in Assiut.
- Volunteer Team Leader | University Center for Career Development at Assiut University (Affiliated with USAID)
  - Bridged the gap between university education and labor market requirements.
  - Managed courses for soft skills development.
- Board Member | Smile Makers Association for Orphan Sponsorship and Community Development in Assiut Governorate ([جمعية صناعات البسمة](#)), which is known as No. 940 of 2011 (Affiliated with the Ministry of Social Solidarity)
  - Volunteered in the summer educational club to develop children's scientific skills.
  - Taught mathematics, science, and programming to children.

### **SOFT SKILLS COURSES**

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1. Employability Skills by Aspire in cooperation with UCCD Assiut University
2. Project Management Course by American Chamber of Commerce in Egypt
3. Green & Smart Technologies Assiut Boot Camp by British University in Egypt
4. Assiut University Leaders Preparation Camp for 2021-2022.

### **PERSONAL NOTE**

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I am dedicated to continuous learning and improvement, always striving to optimize processes and contribute positively to the tech community. I look forward to the opportunity to bring my skills, passion, and innovative thinking to the Software Engineering Internship at Microsoft. Thank you for considering my application.

### **LANGUAGES**

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**Arabic:** Native Language

**English:** Intermediate Listener, Novice Speaker, Advanced Reading, and Writing

**French:** Little knowledge

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- **GitHub:** <https://github.com/MahmoudAlyosify>
- **YouTube Channel:** <https://www.youtube.com/@EinshtenMisr/>
- **LinkedIn Profile:** <https://www.linkedin.com/in/mahmoudalyosify>
- **Contact:** <mailto:mahmoudalyosify.email@gmail.com> | **[WhatsApp]** (+201145557959)

### **References**

Available upon request.