

FULLSTACK DIPLOMA

ENG YOUSEF EL-KHAWANKI

[HTTPS://YOUSEF-ELKHAWANKI-PROFILE.VERCEL.APP/](https://yousef-elkhawanki-profile.vercel.app/)



ABOUT ME

- Founder of Joe Programming Channel.
- I have over 4 years of experience in software development, currently working as a Senior Frontend Developer at Health Insights.
- I've led a frontend team to upgrade large-scale systems from legacy technologies to React.js, improving performance and user experience.
- My main tech stack includes React.js, Next.js, React Native, and .NET.
- I've contributed to projects for well-known clients such as Madinet Masr, Hyde Park, Sunbulah, and Walima.



TECHNOLOGY CONTENT

FRONTEND

HTML , CSS , JavaScript , Reactjs , Angular .

BACKEND

PHP , Laravel , C# , .Net , SQL , Database , OOP

TOOLS & OTHERS

Github , Figma , Agile , etc....

INTRODUCTION TO WEB

What is the Web?

- A network that connects users and servers through the Internet.
- Allows sharing and accessing information globally.
- Websites and Web Apps are built on three layers:
 - Frontend → What users see.
 - Backend → What happens behind the scenes.
 - Database → Where data is stored.

INTRODUCTION TO WEB

How the Web Works?

1. Domain Name.

- a. The name you type in your browser instead of a long IP address.
- b. Example: `www.google.com` instead of `142.250.190.78`.

2. DNS (Domain Name System).

- a. Works like the internet's "phonebook."
- b. It translates the domain name into an IP address so your browser knows which server to reach.

INTRODUCTION TO WEB

How the Web Works?

1. Server.

- a. A computer that stores your website's files (HTML, CSS, JS, images, data).
- b. It receives requests from users and sends back the correct response.

2. Browser

- a. The tool users use to access the web.
- b. It receives files from the server and renders them into the website you see on screen.

INTRODUCTION TO WEB

How the Web Works?

1. Request–Response Cycle.

- a. You type facebook.com and hit Enter.
- b. The browser sends a request to the server.
- c. The server processes the request and sends a response (HTML, CSS, JS).
- d. The browser reads that response and renders the page for you.

INTRODUCTION TO WEB

User → Browser → DNS → Server → Database → Response → User

CORE TECHNOLOGIES IN FRONTEND

- Structure → HTML
- Style → CSS
- Logic → JavaScript
- Frameworks → React.js / Next.js
- Animations → GSAP / Framer Motion

CORE TECHNOLOGIES IN BACKEND

- C#
- .NET Core / ASP.NET Core
- Entity Framework
- SQL And Database.
- Building RESTful APIs

THANKS

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