

Understanding Web Development

How the Web Works, Becoming a Web Developer, and My Journey

<Name> Darlyn NDONG </Name>

The Mechanics of the Web

How Does the Web Work?

1. Overview:

- The web is a global network of connected devices communicating over the Internet.

2. Key Components:

- Client: A browser sends requests.
- Server: Stores and serves web pages and data.
- HTTP/HTTPS: Protocols that manage data transfer.
- DNS: Converts domain names into IP addresses.

3. Process:

- User enters a URL.
- Browser sends a request to the server.
- Server responds with the requested page.
- Browser displays the page for the user.

Example: Accessing YouTube: Typing *"youtube.com"* triggers a request that retrieves and displays the site.

Tools and Skills for Web Development

What Do You Need to Be a Web Developer?

1. Hard Skills:

- HTML, CSS, and JavaScript: The foundation of web development.
- Frameworks: React, Angular, etc.
- Backend Skills: Node.js, databases.
- Version Control: Git/GitHub for collaboration.

1. Soft Skills:

- Problem-solving.
- Teamwork and communication.
- Continuous learning and adaptability.

1. Essential Tools:

- Code editors: Visual Studio Code, Sublime Text.
- Browser DevTools for debugging.
- Resources: MDN Web Docs, freeCodeCamp, Codecademy.

My Journey into Web Development

Why Did I Choose Web Development?

1. Passion for Technology: Fascination with how websites work.
2. Career Opportunities: High demand for web developers with global opportunities.
3. Creative Freedom: Ability to design and build visually appealing and functional websites.
4. Problem-Solving: Enjoy the challenge of solving real-world problems through coding.
5. Future Goals: Develop impactful projects and grow as an expert in the field.