Hagar Samy El.Gharbawy   Frontend Developer

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Summary

Frontend Developer, with a solid foundation in HTML, CSS, JavaScript, React.js, and Tailwind CSS. Graduate of Information Technology Institute (ITI) Intensive Code Program, where I gained structured training and collaborative experience in modern web development. I focus on writing clean, responsive, and accessible interfaces, and I'm eager to grow by contributing to real-world frontend challenges.

Technical Skills

- **Languages**: HTML5 | CSS3 | Java Script (ES6)
- **Libraries**: Tailwind CSS
- **Tools**: RESTFUL APIs | Git and GitHub

Projects

Palette Generator: *HTML5, CSS3, JavaScript, REST API , Pickr.js*   GitHub Link | Live Demo

- Built a color palette generator using the **Huemint AI API** to create harmonious color schemes with smart color relationship algorithms.
- Created a **locking system** that lets users keep specific colors while regenerating others, with real-time visual feedback and state tracking.
- Added **a luminance detection algorithm** that automatically switches text colors based on background brightness for accessibility compliance (WCAG).
- Implemented **cross-window communication** using the **postMessage API** to sync colors live between the generator and a visualization **demo page** as users make changes.
- Added features like **one-click clipboard copy**, integrated **color picker (Pickr.js)** with auto-lock, and keyboard shortcuts for faster workflow.

Connect 4 Game: *HTML5, CSS3, JavaScript*   GitHub Link | Live Demo

- Developed a game using **Vanilla JavaScript**, featuring custom algorithms to detect horizontal, vertical, and diagonal win conditions.
- Implemented **game state management** using a 2D array system to track player moves and prevent illegal turns.
- Designed a **dynamic UI** with CSS Grid and Flexbox, featuring a custom-built "gravity" mechanism where pieces occupy the lowest available row in a column.
- Optimized for **cross-device playability** using media queries and orientation-specific styling (landscape vs. portrait) to ensure a seamless mobile experience.

To-Do List Manager: *HTML5, CSS3, JavaScript, Local Storage*   GitHub Link | Live Demo

- Developed a full-featured productivity application using **Vanilla JavaScript**, implementing full CRUD (Create, Read, Update, Delete) functionality for task management.
- Ensured a **persistent data layer** using the **Web Storage API (Local Storage)** to ensure user tasks and theme preferences remain saved across browser sessions
- Designed a **dynamic progress tracking system** with a real-time progress bar and a "celebration" module that triggers **confetti animations** upon task completion.
- Implemented a **custom theme engine** that allows users to toggle through a curated array of background aesthetics, with state persistence for the selected UI theme.
- Built an **inline editing system** and a robust **validation engine** that prevents empty entries and provides instant UI feedback via timed warning messages.

Personal Portfolio Website: *HTML5, CSS3, JavaScript, Email.js*   GitHub Link | Live Demo

- Developed a fully responsive personal portfolio using **Vanilla JavaScript** and **CSS3**, featuring a modern "Glass morphism" aesthetic.
- Integrated **Email.js** to build a functional contact system, allowing direct communication from the client-side without a dedicated backend server.
- Developed a robust **Client-Side Validation** for the contact form, utilizing Regex for email verification and real-time UI feedback for input errors.
- Implemented advanced UX features including a **dynamic mobile navigation menu**, a **"Scroll to Top"** utility, and smooth scroll behaviors.
- Leveraged the **AOS (Animate On Scroll) library** to create engaging entrance animations for project cards and section headers.
- Implemented a custom **CV download utility** that dynamically generates a download link for professional resume access.

Training and Certifications

- **Information Technology Institute (ITI)** : Intensive Code Camp | *March – July 2025*
- **Tailwind CSS Crash Course** : Pedro Machado (WebDevUltra) | *October 2025* | Link↗
- **C# Foundational Course** : Microsoft | *June 2024* | Link↗

Education

Damanhour University | Bachelor of Commerce | *October 2018 - June 2022*

Languages

Arabic : Native | **English**: Fluent