

Ezzelden Mahmoud

Frontend Angular Developer

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👤 Profile

Self-taught Front-End Web Developer with strong knowledge of Angular, Typescript, HTML, CSS, and modern UI frameworks. Passionate about building responsive, user-friendly, and performant web applications. Skilled in OOP, design patterns, SOLID principles, and data structures. Bringing a creative background in graphic design and motivated to grow professionally in web development roles.

🎓 Education

B.Sc. in Agriculture (Animal Production, Livestock Division)
Cairo University, Faculty of Agriculture.

Graduated: 2024

🧪 Technical Skills

- Languages & Frameworks: HTML5, CSS3, JavaScript (ES6+), TypeScript, Angular
- Styling & Tools: Tailwind CSS, Sass, Responsive Design, UI/UX basics
- Programming Concepts: OOP, Data Structures, Design Patterns, SOLID principles
- Other Skills: Git/GitHub, RxJS, State Management, Problem Solving, Debugging, Graphic Design (Photoshop, Illustrator, Affinity Designer)

📦 Projects

Advanced Personal Portfolio | Angular (v19+)

🌐 <https://ezzelden-hashem.web.app/> | 🐙 <https://github.com/ezzelden-hashem/portfolio>

Developed a high-performance, fully responsive personal portfolio website from the ground up using modern Angular (v19+) and Typescript. The project serves as a practical demonstration of advanced front-end architecture, performance optimization, and UI development skills.

- **High-Performance Animation:** Engineered a custom 2D animation engine with its own timeline and effect system, offloading all rendering logic to a Web Worker using OffscreenCanvas to ensure a consistently smooth, non-blocking user experience.
- **Modern Angular Architecture:** Built entirely with Standalone Components, leveraging a modular, service-oriented structure for excellent maintainability and scalability.
- **Advanced Theming System:** Implemented a dynamic and persistent theming system allowing users to toggle between light/dark modes and select from multiple accent colors, with all preferences saved to localStorage.

- **State Management:** Created a lightweight, custom state management service to manage application-wide state, such as theme settings and UI visibility, without the overhead of a large library.
- **Reusable Components:** Designed and developed portable UI components, including a theme toggler and a performant image viewer with zoom/pan functionality, ensuring code reusability and a consistent design.

Password Wallet | Angular (v19+) + Capacitor (v7+)

 github.com/ezzelden-hashem/password-wallet |  [Android Package \(APK\)](#)

A secure, cross-platform password manager for Android & iOS built from a single Angular codebase.

Password Wallet is a deterministic password generation app that enables users to generate, retrieve, and manage complex passwords without storing them anywhere.

- Engineered a deterministic password generation engine, eliminating the need for traditional password storage and significantly enhancing security.
- Developed the application using a modern, standalone component architecture in Angular, improving modularity and performance.
- Advanced Security Feature: Designed and implemented a novel deterministic password engine that generates unique, strong passwords for services without storing them. This approach minimizes the attack surface by removing the password vault itself. The engine was built with a modular, test-driven approach to ensure reliability.
- Native Integration: Leveraged the Capacitor framework to access native mobile functionalities.

Technologies Used: Angular, Capacitor, TypeScript, RxJS, SQLite, HTML5, CSS3, Git

Experience

Graphic Designer

02/2024 – 07/2024

Graphic for Print Office | Giza, Egypt

- Designed creative print-ready graphics, layouts, and branding materials.
- Translated client requirements into pixel-perfect designs, demonstrating strong communication and attention to detail.

Sticker Officer

09/2024 – 04/2025

Wafra for Export | Giza, Egypt

- Prepared and managed product stickers for exported goods.
- Ensured quality and compliance with packaging and labeling standards.

Key Technical Focus

- **Front-End Development:** Building responsive and dynamic web applications using Angular, Typescript, JavaScript, HTML5, and CSS3.
- **UI Styling & Frameworks:** Crafting modern, mobile-first interfaces with Tailwind CSS, Sass, and responsive design principles.
- **Programming Foundations:** Strong grasp of Object-Oriented Programming (OOP), SOLID principles, design patterns, and data structures.
- **Code Quality & Practices:** Writing clean, maintainable, and scalable code with focus on modularity and reusability.
- **Version Control:** Effective collaboration and source management with Git and GitHub.
- **Creative Skills:** Leveraging a design background to enhance UI/UX and visual presentation.

Languages

Arabic: Native

English: Intermediate