

Kawthar Abdallah

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Education

Beirut Arab University – BE in Computer Engineering

Expected September 2026

Experience

Full Stack Developer Inter, HNZ Holding – Beirut

August 2026 – Present

- Built backend APIs using C# and .NET Core for the Tekram Deliveries platform and connected it to the frontend
- Implemented and maintained features for the Angular web application and React Native mobile application
- Collaborated with the development team to resolve issues, and support new functionality enhancing customer experience

Frontend Developer Intern, Ositcom – Jounieh

July 2026 – August 2026

- Developed a modern Vue 3 + Vite e-commerce storefront (EasyMart) with Pinia, Vue Router, and Tailwind CSS for product browsing, categories, and collections
- Built complete user flows including authentication, checkout, and order management with Osimart backend integration
- Created reusable components and a structured architecture using APIs for a responsive shopping experience
- Delivered a production-ready frontend with real-time state management, localStorage persistence, and smooth UI interactions

Sales Associate, Aida Store – Saida

February 2024 – June 2026

- Delivered personalized product recommendations and consultative selling, building strong client relationships and driving customer satisfaction
- Managed point of sale transactions in a high-volume retail environment while maintaining accuracy under pressure
- Developed strong communication, negotiation, and problem-solving skills through daily customer interactions

Private Tutor

Sep 2023 – January 2024

- Provided personalized instruction in Mathematics, Physics, and English, adapting lessons to individual student needs
- Simplified complex concepts and enhanced problem solving skills, improving student performance
- Boosted students' confidence and performance through targeted one on one teaching sessions

Projects

EasyMart, Vue 3 E-commerce Storefront

- Implemented core e-commerce functionalities in Vue 3 (Vite + Pinia + Vue Router) including user authentication, persistent cart & wishlist, checkout process, and order management.
- Integrated multiple API modules (osimartAuth, osimartStore, osimartCart, osimartWishlist, and osimartOrders) to connect the frontend with the Osimart backend for data fetching, authentication, and commerce operations.
- Created reusable components and structured architecture with Composition API and localStorage persistence to ensure efficient state management and smooth functionality across the application.

CKKS Homomorphic Encryption for Secure Federated Learning

- Implemented a CKKS homomorphic encryption extension for federated learning, preserving 98.1% MNIST and 83.9% CIFAR-10 accuracy while enabling secure encrypted model aggregation
- Evaluated the encrypted pipeline against a plaintext baseline by analyzing training convergence, encryption latency, communication overhead, and CKKS noise budget
- Achieved only 0.3% (MNIST) and 0.8% (CIFAR-10) accuracy degradation with 12% computational overhead

Hand Gesture Controlled Robot

- Built a real-time hand gesture controlled robotic system using microcontrollers, sensors, and motor drivers.
- Integrated hardware and firmware stack from gesture input processing to motor actuation and movement control.
- Developed embedded software for accurate gesture recognition and reliable real-time robot response

Skills

Languages: Javascript, Python, C, SQL, HTML, CSS, MATLAB, Dart, C#

Frameworks: Vue, Vite, Tailwind CSS, Flutter, .NET

Tool: RESTful APIs, Git, Linux, LocalStorage, Arduino, Microcontrollers, Oscilloscopes

