

Reem Abou Ibrahim

Junior Software Developer

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Objective

Recent Computer Science graduate with hands-on experience in software development, database management, and AI-powered applications. Developed practical skills through a software development internship and academic projects using modern technologies. Strong analytical, problem-solving, and organizational abilities with an interest in improving business processes through technology. Seeking an opportunity to contribute to digital transformation initiatives while continuing to grow professionally.

Core Skills

Full-Stack Web Development | Database Management | Data Analysis | AI & Deep Learning (CNN) | Problem Solving | Process Improvement | Communication Skills | Time Management

Education

American University of Science and Technology | Ashrafiyeh, Beirut

Bachelor degree in Computer Science, | June, 2026

Al Kfeir High school | Al Kfeir, Janoub

Lebanese Baccalaureate in Life Science | June, 2021

Experience

Software Development Intern – Laptops | Saida (3 Months)

- Contributed to the development of an Event Management Web Application using modern web technologies.
- Participated in designing and implementing features for event booking, venue selection, service management, and customer registration.
- Assisted in developing front-end interfaces and integrating back-end functionalities to support event planning workflows.

- Worked with databases and application data management to handle event information, bookings, and user records.
- Collaborated with the development team to test, debug, and improve system performance and user experience.
- Gained practical experience in web application development, system design, problem-solving, and software development life cycle practices.

Technologies Used: HTML, CSS, JavaScript, TypeScript, React, Tailwind CSS, Supabase, SQL, Git.

Projects

BurnAI Care — Burn Severity Diagnostic System — *Senior Project*

Tech Stack: React · Python Flask · CNN (Deep Learning) · Supabase · REST API · Geolocation API

- Built a full-stack AI-powered medical web application that classifies burn injuries (1st, 2nd, 3rd degree) from uploaded photos using a custom-trained Convolutional Neural Network (CNN).
- Developed the front-end in React with drag-and-drop image upload, live camera capture, real-time severity alerts, and an AI-powered chat interface for follow-up medical guidance.
- Integrated a Flask back-end serving the CNN model predictions via REST API, with JWT-based user authentication, persistent chat history stored in Supabase, and session management.
- Implemented a Geolocation feature that automatically locates the 3 nearest hospitals via the Overpass API and displays directions via Google Maps when a serious burn is detected.

Online Marketplace System (University Project)

- Developed a full-stack e-commerce web application using PHP, JavaScript, HTML, CSS, and MySQL.
- Implemented user authentication, product management, category management, shopping cart functionality, and search features.
- Collaborated on developing responsive interfaces and back-end functionalities following web application development principles.
- Tools & Technologies: PHP, JavaScript, HTML, CSS, MySQL, Bootstrap.

Hash Table Visualizer (University Project)

Data Structures & Algorithms — HTML · CSS · JavaScript

- Built an interactive web-based Hash Table visualizer supporting Insert, Search, and Delete operations with real-time animations showing how each bucket and linked list changes after every action.
- Implemented a Polynomial Rolling Hash function and Separate Chaining (linked lists) for collision handling across 8 buckets, achieving $O(1)$ average-case performance.

Process Queue Scheduler (University Project)

Operating Systems — C++

- Designed a priority-based process queue in C++ supporting multi-user login with privilege levels (Low / Medium / High / Admin), where higher-privilege processes automatically reorder ahead in the queue.
- Implemented FIFO scheduling with privilege preemption using bubble sort, ensuring processes from the same privilege level are served in arrival order.

Database & Data Science Projects (University Projects)

- Completed multiple projects covering relational database design, SQL queries, and data analysis.
- Applied data cleaning, analysis, and visualization techniques using a practical data science approach.
- Tools & Technologies: SQL, Python

Game Development Project (Personal Project)

Tech Stack: Unity · C# · OOP

- Collaborated in a team to design and build a game in Unity using C#, implementing game mechanics, physics interactions, scene management, and player controls.
- Applied object-oriented design patterns, event handling, and algorithmic thinking

Skills

Programming Languages: Python | Java | JavaScript | TypeScript | PHP | C++ | C#

Web Technologies: React | HTML5 | CSS3 | Tailwind CSS | Bootstrap | Flask

Databases: SQL | MySQL | Supabase | Database Design

Cloud: Cloud Computing | Cloud Deployment | Cloud Storage | Cloud-based Services

AI / Data: CNN (Deep Learning) | TensorFlow/Keras | Pandas | Data Analysis

Other: Data Structures | Algorithms | Mobile Development | System Hardware | Operating Systems | System Security

Language: Arabic (Native) | English (Fluent) | French (Fluent)

Certifications

Computer Networks – Course Certificate 2024-2025

American University of Science and Technology (AUST) | Beirut, Lebanon

- Studied core networking concepts including network architecture, protocols, and data transmission.
- Gained hands-on knowledge of TCP/IP, routing, switching, and network security fundamentals.
- Developed understanding of LAN/WAN configurations and network troubleshooting techniques.

System Hardware – Course Certificate 2024-2025

American University of Science and Technology (AUST) | Beirut, Lebanon

- Studied computer hardware components including processors, memory, storage, and input/output systems.
- Gained practical knowledge of hardware assembly, configuration, and maintenance.
- Developed understanding of system architecture and hardware-software.