

# Dana Hamade

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Beirut, Lebanon

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## EDUCATION

**Lebanese American University, Beirut, Lebanon** **September 2022-December 2025**

BS in Computer Science

**Al Mayadine International School, Sour, Lebanon** **September 2009-June 2022**

Lebanese Baccalaureate, Life Science

## EXPERIENCE

**Web Developer Intern – Finova Fintech** **January 2025- May 2025**

- Designing and building an e-commerce website using React
- Creating responsive and user-friendly web pages
- Connecting the website to APIs for data handling

**Web Developer Intern – Integrated Digital Systems** **August 2024-November 2024**

- Developed an SQL database using the Microsoft SQL Server
- Developed a Web API using Visual Studio 2022, .NET 6.0, and the MVC (Model-View Controller) development pattern
- Secured Web API using JWT (JSON Web Tokens)
- Tested API using Swagger/SwaggerUI

## PROJECTS COMPLETED

**Lassa Virus Fever Modeling – Research Project** **Spring 2025**

- Applied a machine learning RBNN with 14 neurons and a radial basis activation function to simulate the virus transmission based on disability impact.
- Optimized the model using Levenberg-Marquardt backpropagation, achieving low mean square error and high regression accuracy.
- Validated results through data splitting (training, testing, validation) and confirmed accuracy with histogram error and output overlap.
- Introduced a novel neural network structure for solving nonlinear zoonotic disease models.

**Sustainable Scape - Web Project** **Spring 2024**

- Developed a web platform using PHP, JavaScript, and HTML to tackle food insecurity and plastic pollution in Lebanon, focusing on backend functionality, dynamic user interaction, and accessible design.

**Marvel Galactic Radio System - Database Project** **Fall 2023**

- Designed and implemented a database for Marvel Galactic Radio Station using Microsoft Visio, Oracle SQL Server, and SQL, including ER diagram creation, schema translation, and normalization to BCNF.

## EXTRACURRICULAR & VOLUNTEERING ACTIVITIES

**LebNet Tech Fellows Program, Online** **December 2023-May 2024**

- Discussed various topics related to creativity, employability, and graduate studies.

**Lebanese American University, Beirut, Lebanon**

- Computer Science Club, member **September 2023-December 2025**
- Social Work Club, member **September 2022-May 2023**
- Human Rights Club, member **September 2023 – December 2025**

## WORKSHOPS & CERTIFICATES

All Girls Code Workshop, February 2024

LAU DevFest 2023, October 2023

Google Coursera: Foundations of Cybersecurity, Certificate of Completion, August 2023

## SKILLS & LANGUAGES

Programming skills: Python, Java, C, SQL, HTML, CSS, JAVASCRIPT, PHP, .NET, React js and Angular.

Computer skills: Microsoft Office.

Languages: Fluent in both Arabic and English.