

Dave El Murr

Software Engineer

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PROFILE

I am a Junior Full-Stack Developer and Computer Science graduate with hands-on experience building backend systems, REST APIs, responsive web applications, and AI-powered solutions. I have a strong foundation in OOP, data structures, and full-stack development, with experience collaborating with cross-functional teams and delivering production-ready features. I am eager to apply my knowledge, dedication, and professional experience to make a valuable contribution to a company while continuing to learn and improve.

TECHNICAL SKILLS

Front End | HTML, CSS, JavaScript, EJS, ReactJS, WordPress.

Back End | C++, Express, NodeJS, C#, Python

Database | PostgreSQL, MSSQL, Supabase, Pinecone Vector Database

Developer Skills | Git, Github

Soft Skills | Problem solving, time management, good communication

EXPERIENCE

Full-Stack Software Engineer | *ONSITE - Construction Management Solutions*

May 2026 - Present

ONSITE - Construction Management Solutions

.NET / Razor / C# / JavaScript / jQuery

- Developed and maintained full-stack features using **.NET**, **C#**, **Razor**, and **SQL** Server to support business requirements.
- Created and optimized **SQL** queries, stored procedures, and data access components to improve performance and data reliability.
- Built new features and enhanced existing functionality using **JavaScript**, **jQuery**, and Kendo UI while maintaining a consistent user experience.
- Debugged and resolved production issues, collaborated with team members, and delivered stable solutions on schedule.

Front-end Intern | *Dare21*

Sep 2024-Dec 2024

Dare21

HTML/CSS/Bootstrap/WordPress

- Utilized **HTML** and **CSS** to create responsive websites.
- Utilized **GSAP** to create **animations**.
- Applied **Bootstrap** and **Bootstrap Studio** for improved UI design and user experience
- Worked extensively with **WordPress**, including **WooCommerce** setup, customization, and content management.

EDUCATION

Bachelor's in Computer Science - Notre Dame University - Louaize (NDU).

2022-2026

GPA: 3.78

Relevant Courses:

- **PRO DESIGN DATA ABSTRACTION**
 - Programming Logic: Learn how to break down problems into smaller, manageable steps using algorithms
 - Implemented object-oriented principles - classes, objects, encapsulation, inheritance, and polymorphism.
 - Abstracted data structures and operations for enhanced code clarity and maintainability.

- Utilized common design patterns to solve software design problems efficiently.
- DATA STRUCTURES.
 - Implemented and analyzed advanced data structures (linked lists, trees, graphs).
 - Analyzed algorithm efficiency and complexity (time and space).
 - Array manipulation techniques - sorting (heap, insertion, merge), searching (linear, binary).
- DATABASE.
 - Designed and implemented database schemas to support application requirements, ensuring data integrity and security.
 - Create and query SQL tables.
- Object-Oriented Design (OOD).
 - Implemented design patterns (Singleton, Adapter, Strategy) to solve software design problems efficiently.
 - Designed reusable and maintainable systems using C# and C++.

PROJECTS

AI / Backend Developer | Academic Project

December 2025 – May 2026

Smart Garage – AI RAG System

Python | Vector Database | .NET | REST APIs

- Built an AI-powered RAG system to assist with vehicle diagnostics and maintenance.
- Processed car manuals and technical documents into vector embeddings for semantic search.
- Retrieved vehicle-specific context before generating AI responses.
- Implemented conversation history per vehicle to support contextual follow-up questions.
- Developed a modular backend architecture and exposed functionality through REST APIs.
- Focused on clean design, scalability, and future extensibility.
- Used **Data structures** like **stack**, **list** and **sets** to store information

C# Developer | Academic Project

March-2025

Student Information System (SIS)

C#

- Designed and implemented a multi-class Student Information System applying Object-Oriented Design principles.
- Utilized Encapsulation, Inheritance, and Polymorphism to create maintainable and reusable components.
- Implemented design patterns such as Singleton for centralized management, Adapter for system integration, and Strategy for flexible transcript viewing formats.
- Focused on data abstraction and modularity, ensuring scalability and extensibility of the system.

Frontend Web Developer | Personal Project

July-2024

Drinks Search Engine

EJS | CSS | JavaScript | NodeJS | Express

- Created a website that allows a clean **UI**.
- Ensured good **UX** by adding search and random functionality.
- Used a public API to GET data and display it to the user.
- Created a local server and hosted the website locally using **Express** and **NodeJS**.

Frontend Web Developer | Personal Project

January-2024

User Portfolio

HTML | CSS

- Created a website with multiple sections.
- Added a Navbar with that **navigates** to correct section of the page.
- Designed a **responsive** interface using CSS.
- Used CSS to create **animations**

C++ Developer | Personal Project

January-2024

School Management System

C++

- Created a system that allowed the user to **manage** students and **update** their grade record
- Used **OOP** to structure and secure the system