

Ali Mansour

Software and Networks Engineer

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Education:

B.E. in Computer and Communication Engineering – Software and Networks

2021-2026 (Expected)

Antonine University, Baabda, Lebanon

Official Lebanese Baccalaureate, General Sciences - 18.22/20

June 2021

Al-Hasan High School, Beirut, Lebanon

Experience:

- **Robotics Intern**

July 2025 – August 2025

Inmind .ai Company, Beirut, Lebanon

- Built a ROS2 point cloud service using depth camera data, performing STL mesh registration with Open3D to estimate object poses, and deployed the solution in a Dockerized environment for portability
- Developed ROS2 action server/client to move the robot toward obstacles using LiDAR readings and stop before collision by publishing velocity commands.
- Implemented a pick-and-place pipeline in MoveIt and Gazebo, with configurable parameters stored in JSON files.

- **Full Stack Developer Intern**

February 2025 – April 2025

IDS Fintech Company, Beirut, Lebanon

- Built and deployed RESTful APIs using ASP.NET Core, enabling smooth communication between frontend and backend.
- Implemented CRUD operations with Entity Framework Core, improving database interaction efficiency.

- **Full Stack Developer Intern**

July 2024 – August 2024

Integrated Digital Systems Company, Beirut, Lebanon

- Developed and maintained backend services using .NET Framework.
- Managed and developed databases with MySQL Server.

- **Web Developer Intern**

May 2024 – July 2024

OGERO, Beirut, Lebanon

- Utilized React.js and Node.js to build and maintain dynamic web applications.
- Developed responsive, user-friendly interfaces using HTML, CSS, and JavaScript.
- Assisted in debugging, testing, and optimizing code to enhance application performance.

Projects:

Web Development Projects:

- **Final Year Project – AI-Driven Emergency & Stock Management System**

November 2025 - Present

Building an AI-enabled mobile and web system for the Lebanese Red Cross to optimize ambulance dispatch, first aid guidance, and predictive stock management.

- **Smart Shop Mobile App – AI-Powered E-Commerce Platform**

May 2025

Developed a mobile app for laptops, phones, and accessories with AI features like image-based search (Flask API, cosine similarity), voice search, and 3D product view using Flutter.

- **Bookers Web Application** *December 2024*
Developed a full-stack Laravel application inspired by Airbnb, featuring dashboards for clients, hosts, and admins, a booking system, chat functionality, a loyalty program, and admin tools for managing listings and users.
- **Cars Marketplace Website** *December 2023*
Implemented with buying and renting features using HTML, CSS, JavaScript, and Node.js. The platform included search, filter, and user authentication functionality to enhance user interaction.

Software Engineering and Database Projects:

- **Car Rental System** *May 2024*
Developed in C++ using linked lists, stacks, queues, and sorting algorithms. The system handled vehicle availability, rental processing, and user management with efficient data structures for optimized performance.
- **Store Management System** *May 2023*
Created in Java with JSON and MongoDB integration. The system managed inventory, sales transactions, and generated reports to streamline store operations.

System Design and Modeling Projects:

- **Travel Community Management System** *May 2025*
Designed a full travel booking app in Figma which included features like flight search, booking, login/signup, profile editing, and filters for streamlined UX.
- **Travel Community Management System** *December 2023*
Designed with UML diagrams (Use Case, Class, Sequence) for structuring a community platform. The design aimed to support user-generated content, community interactions, and travel planning, ensuring a scalable and maintainable architecture.

Technical Skills:

- **Programming languages:** Java, C++, C#, PHP, Python, Assembly
- **Web development:** HTML, CSS, JS, Node.js, React.js
- **Software Development Frameworks:** Flutter, Laravel, ASP.NET, MVC, .NET Framework
- **Database Management:** MySQL, MongoDB
- **Cloud/ DevOps and Tools:** Microsoft Azure, Docker, Git, Linux
- **Graphic design tools:** Figma, Adobe Illustrator, Photoshop

Soft Skills:

- Team collaboration
- Problem-solving
- Flexibility and adaptability
- Analytical skills

Certificates:

- CCNAv7: Scaling and Connecting Networks *June 2023*
- Natural Language Processing in Production Using AWS Tool - Beirut AI *March 2023*
- CCNAv7: Switching, Routing and Wireless Essentials *Jan 2023*
- CCNAv7: Introduction to Networks *June 2022*

Languages:

- Arabic: Native
- English: Advanced (C2 Level)