

ELIE RHAYEM

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[LinkedIn Profile](#) • [GitHub Repository](#)

EDUCATION

Bachelor of Computer & Communication Engineering

Sep 2021 - May 2026

University of Saint Joseph - ESIB

- Specialization in Software Engineering
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WORK EXPERIENCE

Internship - Code Technologies

Jun 2025 - Jul 2025

- Developed and tested RESTful APIs using ASP.NET Core and Swagger
 - Worked with PostgreSQL for data persistence and query handling
 - Used Git for version control during development
 - Containerized applications using Docker and gained exposure to React and TypeScript
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PROJECTS

Solar Panel Soiling Monitoring and Control System - University Project

Jan 2026 - May 2026

- Building a Flutter mobile application with Firebase for remote monitoring and data visualization
- Developing an image-processing module to compute soiling index for maintenance decisions
- Implementing control and data-handling code on a Raspberry Pi to interface with the prototype
- Integrating the mobile application with the physical prototype for end-to-end system communication

RAG-Based Educational Web Application - University Project

Sep 2025 - Dec 2025

- Developed a web application that processes PDFs to generate summaries, flashcards, and MCQs
- Implemented a RAG pipeline with document chunking and semantic search using MPNet embeddings
- Integrated a quantized Meta Llama-3-8B-Instruct model for controlled text generation
- Connected the pipeline end-to-end with an ASP.NET backend and React frontend

AI Codebase Detector - Side Project

Aug 2025

- Developed a web app that analyzes GitHub repositories to estimate AI-generated code percentage
- Developed backend services in ASP.NET and integrated an AI detection microservice
- Implemented a React interface connected to the analysis pipeline

Library Management System - Internship's Project

Jun 2025 - Jul 2025

- Developed role-based web application with CRUD operations for book management
- Built RESTful APIs using ASP.NET Core with PostgreSQL database
- Containerized application using Docker and Docker Compose
- Tested deployment locally using Kubernetes (Minikube)

Vending Machine Management App - University Project

Jan 2025 - May 2025

- Developed a Flutter mobile app to manage vending machines, perfumes, and transactions
 - Integrated Firebase for real-time data, authentication, and activity logs
 - Implemented monitoring of perfume levels, sensor status, and sales analytics (top machines/perfumes)
 - Connected the mobile application to a physical prototype running on a Raspberry Pi
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ADDITIONAL INFORMATION

- **Technical Skills:** C++/Java (OOP, Data Structures, Design Patterns), Python (AI Tasks), React (Typescript), C# (ASP.NET), Flutter & Firebase (Mobile Applications), Git Version Controls, Containerization on Docker, Container Orchestration
- **Languages:** Arabic (Native), English (Advanced), French (Moderate), Spanish (Beginner)
- **Hobbies:** Football, Swimming