

# Seifeddine JAZIRI

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## Education

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**Higher Institute of Computer Science and Communication Techniques (ISTIC)**

Baccalaureate, 2022

Third Year – Software Engineering (GLSI)

## Internship Experience

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**Frontend Development Intern – University of AIZU (Japan)**

Summer 2023

- Selected as a winner of the IDEATHON ISTIC-AIZU.
- Developed frontend using React.js for educational platform.

**PFE Internship – Computer Vision and Full-stack Development**

2025

- Trained 3 YOLO models for real-time detection of:
  - Drinks (espresso, cappuccino, etc.)
  - Food (Burger, Pizza, etc.)
  - Chicha (Kalloud, Aluminium, etc.)
- Integrated models with OpenCV and WebSockets for real-time applications.
- Built a full API backend using FastAPI with Redis for caching and session management.
- Implemented 8 CRUD operations: getAll, getById, getAllSoftDeleted, softDelete, hardDelete, update, create, restore all soft deleted.
- Developed a complete coffee shop management platform using Next.js for the frontend.

## Professional Experience

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**Freelance Web Developer**

2025

- Developed a professional portfolio website for musician Andrea Causaprunga using Next.js.
- Website: [andreacausaprunga.com](http://andreacausaprunga.com)

**Intel Morin Educational Center (Angular)**

- Designed UI and implemented frontend components using Angular.

# Software developer at Artificial Insight

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2025

## Wildfire Detection System (Computer Vision & Full-stack)

- Built a full-stack web application for real-time wildfire detection using Next.js frontend and FastAPI backend.
- Trained and deployed computer vision models to detect smoke and fire in real-time.
- Implemented monitoring and alert system for early wildfire prevention.

## SafeOps – Airport Management System (Flutter)

- Developed user-friendly mobile interfaces for comprehensive airport management system.
- Built cross-platform mobile application using Flutter for iOS and Android.

## DevOps AutoPilot (Next.js)

- Developed frontend interfaces for pipeline recommendation system.
- Created intuitive UI to visualize and guide DevOps pipeline construction.

## KFF GPT – RAG Chatbot (MCP & Vector Database)

- Built a Retrieval-Augmented Generation (RAG) chatbot that analyzes information from a knowledge base.
- Implemented vector database using Qdrant with BM25 and Elasticsearch for efficient semantic search.
- Utilized Model Context Protocol (MCP) for enhanced context management.
- Integrated WebSockets for real-time bidirectional communication.

## AI ChatBot Application (LangChain & WebSockets)

- Implemented chatbot using Model Context Protocol (MCP) for API consumption.
- Utilized LangChain for NLP and LangGraph for node-based conversation flow management.
- Integrated WebSockets for real-time bidirectional communication.

## Sales Management Mobile App (Flutter & Riverpod)

- Developed Flutter application for comprehensive sales management system.
- Implemented Riverpod for efficient state management and reactive UI updates.

## Computer Vision Drawer (Mediapipe & Hand Tracking)

- Built a hand tracking system for drawing using finger gestures.
- Developed AI-powered virtual mouse and balloon-popping game using index finger recognition.

## Technical Skills

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- **Frontend:** React.js, Angular, Next.js, Flutter, HTML, CSS, JavaScript
- **Backend:** FastAPI, WebSockets, REST APIs, Redis
- **AI/ML:** OpenCV, YOLO, Mediapipe, LangChain, LangGraph, Model Context Protocol (MCP), RAG
- **Database & Search:** Qdrant, Elasticsearch, BM25, Vector Databases
- **Mobile Development:** Flutter, Riverpod
- **Tools:** Git, VS Code, Postman

## Clubs & Activities

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- Graphic Designer and Organizer – IDEATHON Event
- Member – Elite Council