AKREM MEDIMAGH

SOFTWARE ENGINEERING UNDERGRADUATE

akrem.medimagh@gmail.com | 56030414 | Linkedin: linkedin.com/in/akrem-medimagh-96495a32a
github: https://github.com/lost4onin

SUMMARY

Second-year engineering student with a multidisciplinary focus on AI, software development, and smart systems design. A multi-Hackathon winner recognized across various engineering disciplines.

PROFESSIONAL SKILLS

Management	Critical thinking
Analytical mindset	Team Coordination

TECHNICAL SKILLS

- Programming Languages: SQL, JAVA, Python, C/C++, Html, Css, Javascript, react, Php, symfony
- AI & Data: n8n, RAG, Data Manipulation, Scikit-learn Computer Vision, Spring Boot, REST API

EDUCATION

National Engineering Degree in Software Engineering (INSAT) **Sep 2025 – Present**

- Student at the prestigious National Institute of Applied Sciences and Technology.

English Certificate 4B (Amideast) **2021 - 2023**

PROFESSIONAL BACKGROUND

President of the IEEE INSAT Computer Society Chapter **Aug 2025 – Present**

- Full management of a Chapter of 280+ members.
- Coordination of task assignment and distribution among CS board members.
- Management of crises and diplomacy during conflicts of interest with other clubs.

Intern at COFICAB **Jul 2025 – Aug 2025**

- Developed the front-end of a subnet management and request tracking page for the organization.
- Integration and immersion in a professional environment for one month.
- Acquired fundamentals of enterprise-level web and network systems development.

CV & ML Instructor — National Academy of Robotics **June 2025**

- Guided high schoolers through their first steps in Python, Computer Vision, and Machine Learning as part of a youth tech outreach program in all states of Tunisia for a whole week.

PROJECTS

Real-time forest fire detection AI — embedded on Arduino hardware:
A Random Forest model trained on a curated tropical forest fire dataset interfaces with an Arduino microcontroller via PySerial, processing live temperature, humidity, and smoke sensor inputs to deliver real-time fire risk predictions at the edge.

HIKI: Camping & hiking platform for the outdoors community:
HIKI is a Symfony-based web platform for hikers and campers, integrating real-time weather and moon phase APIs, location detection, and an SQL database of curated campsites to deliver personalized, experience-based trip suggestions for the outdoors community.

LUMIO: AI-Powered Early Attention Detection & Learning Support STARTUP:
LUMIO tracks student focus in real time via MediaPipe WASM, classifies distractions using XGBoost and ensemble models, and delivers evidence-grounded guidance through three AI assistants powered by a LangChain and FAISS RAG engine with all workflows orchestrated transparently by n8n.

HACKATHONS

1st place: GAICA, ANAVID SMART AI CAMERA CHALLENGE
1st place: National Re-Tech Fusion, KILANI GROUP SMART GREEN ENERGY PLATFROM
1st place: Sight Day Congress Technical Challenge: LUMIO and cognitive diseases
1st place: leanX: TERIAK smart desktop app for industrial management

ADDITIONAL INFORMATION & ACTIVITIES

- **Languages:** English, French, Arabic (Fluent), German (Notions).
- **Activities:** Social entrepreneurship with ENACTUS and theater with the THEATRO INSAT, IEEE INSAT SB