

Mohamed Saber

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About me

Seeking a research internship in NLP/AI. Currently pursuing Master's in Embedded AI with focus on Natural Language Processing and Computer Vision. Have hands-on experience building AI-powered applications including RAG systems and real-time computer vision solutions. Available for end-of-studies internship from February 2026 to July 2026.

Education

Ibn Zohr University, Morocco <i>Master's degree, Embedded Artificial Intelligence</i>	2024 – 2026
Ibn Zohr University, Morocco <i>Bachelor's degree, Computer Engineering</i>	2022 – 2023
Higher School of Technology - Laayoune, Morocco <i>Associate's degree, Software Engineering</i>	2020 – 2022

Research Interests

Natural Language Processing, Large Language Models, Retrieval-Augmented Generation, Computer Vision, Multilingual NLP, Few-shot Learning.

Work Experience

FandaSoft <i>AI Engineer - Generative DSL (domain-specific Language) Automation System</i>	July. 2025 – present Marrakech, Morocco
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- Developed intelligent content generation system leveraging AWS Bedrock and foundational models for automated DSL-content creation.
- Architected production-grade LLM integration with sophisticated prompt engineering techniques using few-shot learning approaches to improve model output quality and consistency.

Mabiplus <i>Frontend Engineer - contract</i>	Jun. 2025 – Jul. 2025 Rabat, Morocco
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- Refactored legacy code to improve performance and maintainability for better system scalability.
- Ensured responsive design across multiple devices for seamless user experience optimization.
- Collaborated with tech leads and engineers on implementation, functionality, and conducted code reviews.

Yutapp <i>Founding Software Engineer - full-time</i>	Feb. 2023 – Feb. 2025 Arlington, USA (Remote)
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- Built management and data visualization user interfaces using modern JavaScript libraries for AI-powered content creation platform.
- Contributed to defining technical stack and API structure design for scalable web application architecture.
- Conducted end-to-end, snapshot, and unit testing ensuring robust application development and deployment.

- Helped refactor entire frontend architecture establishing stable, maintainable codebase for production environment.

FromTelecom

Frontend Developer - internship

Aug. 2021 – Sep. 2021

Agadir, Morocco

- Participated in development and maintenance of web platform using modern frontend frameworks and technologies.

Skills

Major Programming Languages: Python (2 years), JavaScript/React (3 years), HTML/CSS, C/C++, SQL.

AI/ML Frameworks and Technologies: PyTorch, OpenCV, scikit-learn, Hugging Face Transformers, TensorFlow, NumPy, Pandas, Matplotlib.

Natural Language Processing: Retrieval-Augmented Generation (RAG), Vector Databases, Large Language Models, Text Processing, Semantic Search.

Computer Vision: Object Detection (YOLO), Multi-Object Tracking, Facial Landmark Detection, Real-time Processing.

Web Technologies: React.js, Next.js, FastAPI, Node.js, REST APIs.

Databases: MongoDB, MySQL, Pinecone (Vector DB).

Cloud & Deployment: AWS, DigitalOcean, Vercel, Docker, Edge Computing (Raspberry Pi).

Natural Languages: Arabic (native), English (fluent), French (intermediate).

Major Projects

AskUiz - University Chatbot — askuiz.msaber.tech

AI-powered chatbot designed to assist students with academic queries related to university schedules, courses, and services. Built using Retrieval-Augmented Generation (RAG) techniques to ensure accurate, context-aware responses from university documents. Implemented semantic search using vector databases and embedding models for efficient information retrieval. The system processes natural language queries and provides relevant answers by combining retrieval mechanisms with generative AI.

Highway Vehicle Tracking System — Raspberry Pi 5 Deployment

Real-time highway traffic monitoring system using computer vision techniques. Implemented YOLOv8 for robust object detection combined with DeepSORT algorithm for multi-object tracking across video frames. Deployed on edge computing platform (Raspberry Pi 5) for low-latency processing in real-world traffic scenarios. System capable of tracking multiple vehicles simultaneously while maintaining accurate identification across occlusions.

Driver Fatigue Detection System — Edge Computing Implementation

Developed real-time driver monitoring system to detect signs of fatigue using camera input and computer vision algorithms. Implemented facial landmark detection using OpenCV and Python with optimized performance for embedded environments. System processes video streams in real-time, analyzing eye closure patterns and head position to identify fatigue indicators. Deployed on Raspberry Pi for efficient edge processing with immediate alert capabilities.

Extracurricular

Embedded AI Club (IAE) — Feb. 2025 – Present

Sponsorship Coordinator — Ibn Zohr University, Agadir, Morocco

- Contributed to sponsorship acquisition and event planning for [Smart Cities and AI Conference](#).

Certifications

- AWS Certified Cloud Practitioner (CLF-C01)
- Programming Foundations: APIs and Web Services, Object-Oriented Design, Data Structures