Mohammad Salhab

AI & Machine Learning Engineer · Computer Engineer, 1st in class at BAU

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SUMMARY

Computer Engineering graduate, **1st in class at Beirut Arab University** (CGPA 3.99/4.0) and IEEE ICONET26 author. Built a client-churn model that **runs in production** at Wakilni. Seeking AI / machine-learning engineering roles; available to relocate immediately.

Core competencies: Machine learning · Deep learning · Computer vision · LLM applications · Model deployment (MLOps) · Data analysis (SQL, pandas) · Python · FastAPI · React

EDUCATION

B.E. Computer Engineering · AI Track, Beirut Arab University (BAU)

Sep 2022 – Sep 2026

- Gamal Abdel Nasser Award (High Distinction: awarded to the top-ranked graduate of each department, university-wide.)
- CGPA 3.99 / 4.0: Graduated 1st in Computer Engineering · A or A+ in every graded course but one · Final-year project graded A+
- Coursework: Deep Learning · Machine Learning · Computer Vision · Embedded Systems · Compiler Design

EXPERIENCE

AI Engineering Intern · Wakilni

Jun – Sep 2026

E-commerce logistics & fulfilment · Beirut, Lebanon

- In production: a client churn-risk model built on live operational data, scoring every active client 0–100 (calibrated) with three plain-English reasons (SHAP), plus survival analysis for when clients tend to leave.
- Running as a service, not a notebook: FastAPI backend, React dashboard sorted by revenue at risk, scheduled pipeline, deployed on a hosted server.
- One of two contributors chosen to build the central repository for the programme's approved AI projects.

Technology Intern · Saida Municipality

Jun – Sep 2026

Public-sector digital transformation · Saida, Lebanon

- Shipped the Home-screen features of the municipality's citizen-complaints app (Expo / React Native, TypeScript): recent-reports feed, first-time reporting tutorial and in-app tutorial video, in Arabic, English and French.

Founder · SalhabWeb

2024 – Present

Websites, WhatsApp chatbots and AI agents for businesses · salhabweb.com

- Build and launch websites, WhatsApp chatbots and AI agents for clients, end to end: from first call to deployment.

PROJECTS

VocalBlade · AI text-based video editor

Sep 2025 – Jun 2026

Final-year project, graded A+ · supervised by Asst. Prof. Ziad Doughan

- Edit the transcript and the video edits itself; a request like “remove anything about tea” becomes word-level cuts through a local LLM (Qwen 2.5 7B).
- Cuts that sound and look natural: WhisperX word-level transcription with speaker diarization, crossfades and voice cloning for audio, RIFE/FOMM frame interpolation for video. Django + GraphQL backend, React + TypeScript frontend.

MelodicVision (Melvis) · AI music genre classifier 2026

IEEE ICONET26 paper, presented Oct 2026 · co-authored with Dr. Ziad Doughan

- 82% test accuracy on GTZAN with only 799 training clips: genre classification as an image problem, where 30-second clips become 128×128 Mel spectrograms read by a fine-tuned ResNet-18.
- Grad-CAM shows the model attends to musically meaningful regions; a sliding-window ensemble classifies full-length songs.

Kimo · voice-controlled robot pet Spring 2026

Embedded Systems lab

- Understands spoken commands in English and Arabic and chases a red object on its own: Whisper + bilingual keyword matching, a local Phi-3 Mini via Ollama for free-form requests, OpenCV tracking; works offline via a local Whisper fallback. Raspberry Pi 5 brain; Arduino + L298N driving a 4WD chassis.

Other projects: Digital Twin (one medical history from many hospitals, 3D body view, LLM "AI doctor") · **Yoga Pose Coach** (MediaPipe, spoken corrections) · **CocoByte** (own language, interpreter and web IDE) · **Secure Messaging** (Diffie-Hellman, AES-GCM, image steganography).

PUBLICATION

M. Salhab, Z. Doughan. "Melodic Vision (Melvis): Music Genre Classification via Deep Learning on Mel Spectrograms." ICONET26, IEEE Computer Society Lebanon Chapter, Oct 2026.

SKILLS

AI / Machine learning: PyTorch · scikit-learn · XGBoost · SHAP · survival analysis · model deployment (MLOps) · OpenCV · MediaPipe · Whisper / WhisperX · LLM apps (Ollama, local models)

Programming: Python · SQL · C/C++ · JavaScript / TypeScript · Bash · Assembly (8085)

Backend & web: FastAPI · Django · Node.js · React · REST / GraphQL · MySQL · MongoDB

Systems: Linux · Git / GitHub · server deployment · Raspberry Pi · Arduino

HONORS

- Faculty of Engineering top-students list, 4 semesters
- Certificate of Recognition: top of class, first year (2023)

LANGUAGES

Arabic: Native · English: Professional working proficiency (IELTS 6.5)