Mohammad Salhab

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

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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+

TECHNICAL 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

LANGUAGES

Arabic Native

English IELTS 6.5
Professional working proficiency

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.

HONORS

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

COURSEWORK

Deep Learning · Machine Learning · Computer Vision · Embedded Systems · Compiler Design

PROFILE

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.

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.

Python · XGBoost · SHAP · SQL · FastAPI · React · In production

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.

React Native · TypeScript · Expo

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.

LLM · WhisperX · Django · React · TypeScript · A+

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.

PyTorch · ResNet-18 · Transfer learning · Grad-CAM · IEEE

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.

Raspberry Pi 5 · OpenCV · Local LLM · Arduino

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).