

MAHDI CHIHIME

AI & Machine Learning Engineer | Software Developer

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PROFESSIONAL SUMMARY

AI, automation, and software engineering professional with production experience building LLM-powered systems, backend services, and data pipelines. Currently leading AI and automation initiatives for a US manufacturer, spanning CRM automation, warehouse systems, call intelligence, and workflow automation. Level 6 in 42 Beirut's peer-to-peer engineering program.

EXPERIENCE

AI & Automation Engineer – Natural Stone Veneer Inc.

March 2026 – Present

US stone-veneer manufacturer – digital transformation across sales, operations, and logistics

- Translate CEO and sales/operations requirements into a production automation platform: Dockerized microservices on a Linux VPS with a Supabase (PostgreSQL) backend powering an AI-assisted CRM of 50,000+ contacts.
- Built the warehouse inventory system end to end: an ETL pipeline that parses a 1,400 x 276-cell Excel warehouse map into a normalized database of 3,400+ locations, plus a live web dashboard with search, stock edits, movement audit trails, and KPI views, now used by the operations team for daily stock tracking.
- Automated the lead-to-sale lifecycle: Meta/Instagram lead capture synced to the CRM, catalogue delivery, sample-delivery follow-ups, reply detection, and win-back campaigns; integrated an undocumented shipping-carrier API for delivery-status emails.
- Built an AI call-intelligence pipeline on the company PBX: automatic call-recording retrieval, speech-to-text transcription, and LLM analysis that extracts action items and routes task emails to the right staff.
- Own testing, deployment, and documentation: n8n workflow automation behind Cloudflare, audit and handoff documentation, daily CEO progress reports, and iterative, feedback-driven improvements.

AI Engineer Intern – Byblos Bank

January 2026 – June 2026

Beirut, Lebanon

- Built an internal AI-powered incident support engine to help Level 2 operations teams diagnose and resolve banking system issues faster.
- Developed an OCR + ResNet18 classification pipeline to detect and categorize document types (ID, passport, civil register) from scanned PDFs.
- Engineered a web-scraping, LLM-powered chatbot delivering context-aware answers from live bank website data, deployed for internal staff use.
- Containerized all microservices with Docker for consistent, reproducible deployments across development and staging.

EDUCATION

42 Beirut – Level 6

2025 – Present

Architecture of Digital Technologies (42 Core Curriculum) – project-based, peer-reviewed: systems programming, algorithms, software architecture

Lebanese International University

2021 – 2024

Bachelor of Science in Computer Science

SELECTED PROJECTS

Minishell | C, Linux, System Calls

November 2025

- Bash-like shell with custom lexer/parser, pipe chaining, I/O redirection, signal handling, and execve-based execution; handled POSIX edge cases including heredoc, quoting, and exit-status propagation.

POS System | C#, .NET, Docker

August 2025

- Complete point-of-sale system with order entry, payments, real-time inventory, and receipt printing; packaged as a Docker container for simplified deployment on client machines.

Face Attendance System | Python, Computer Vision, Deep Learning

September 2024

- Custom deep-learning model for real-time face-recognition attendance with anti-spoofing and a full preprocessing pipeline (detection, alignment, normalization); robust across varied lighting conditions and angles.

TECHNICAL SKILLS

Languages: Python, C, C# (.NET), JavaScript, SQL, Java, HTML/CSS

AI / ML: LLMs, AI automation, NLP, OCR, Computer Vision, PyTorch, TensorFlow, scikit-learn, ResNet, ETL pipelines

Backend & DevOps: Docker, Linux, Supabase / PostgreSQL, REST APIs, n8n, Cloudflare, web scraping, Git, Postman

LANGUAGES & CERTIFICATIONS

Languages: Arabic (native), English (professional), French (conversational)

Certifications:

- Cyber Security Piscine – 42 Beirut (Oct 2025)
- Cyber Security Workshop – UNICEF (May 2023)
- Mobile Development Workshop – UNICEF (Jun 2023)

EXTRACURRICULAR

FoodBlessed – Core Member & Volunteer

May 2021 – Present

Organized food-distribution and charity campaigns supporting hundreds of families across Lebanon; coordinated volunteers and logistics.