

Mohamad Ahmad El Halabi

IEEE Member | President, Computational Intelligence Society (CIS) Chapter
Beirut, Lebanon | elhalabimohammad6@gmail.com | +961 81 671 594

[LinkedIn: Mohamad Ahmad El Halabi](#)

Profile

Computer & Communications Engineer focused on AI/ML, computer vision, and NLP, with hands-on experience delivering end-to-end AI projects—from model development to deploying user-facing applications. Proven impact through production-level solutions validated with real users and practical stakeholders, along with strong leadership as Founder of M&T Tutoring and Founding President of the first IEEE Computational Intelligence Society (CIS) Chapter in Lebanon. Seeking an AI/ML Engineering role where I can build reliable, scalable, and impactful AI products.

Education

Rafik Hariri University (RHU), Mechref, Lebanon 2021 – 2026
Bachelor of Engineering (BE) in Computer & Communications Engineering

Experience

AI/ML Engineer Intern May 2026 – Jul 2026

The Morfity — Digital Agency (Beirut, Lebanon)

- Built and shipped a production, bilingual (Lebanese Arabic/English/Arabizi) AI sales-assistant widget and 8-page analytics dashboard using FastAPI, GPT-4o-mini, and React; identified and remediated a cross-tenant data-exposure vulnerability across 24 endpoints ahead of client launch.
- Designed, back-tested, and deployed 5 MetaTrader 5 algorithmic trading strategies (XAU/USD, USD/JPY, EUR/USD, BTC/USD, ETH/USD) with tiered risk management, validated out-of-sample on \$100K accounts before live deployment.
- Developed and deployed a production Next.js/Supabase e-commerce platform (onesub.store) with secure checkout, admin dashboard, and automated order confirmation; onboarded and mentored an incoming AI engineering intern.

AI Engineer Intern - Certification as an AI Engineer May 2025 – Jul 2025

Jaber Consulting (Remote)

- Designed and deployed an Arabic training-center chatbot supporting colloquial and formal dialects. Integrated speech-to-text and deployed via Telegram Bot API for real-time voice interaction.
- Automated workflows using Gmail API on Google Cloud Platform; logged 100+ hours of AI development.

Co-Project Manager – AI Traffic Optimization (Proposal) May 2025 – Jul 2025

FlowSense Technologies LLC (Saida, Lebanon)

- Led adaptive traffic-signal proposal using YOLOv5, ML, cameras, radar, and IoT sensors; presented to Saida Municipality.

Founder & Managing Director Oct 2023 – Present

M&T Tutoring

- Founded and scaled an online tutoring platform serving 1,000+ clients with 90+ tutors globally. Leading full-stack MERN development, managing tutor recruitment and client relations.

Teaching Assistant & Workshop Coordinator Nov 2023 – Present

Rafik Hariri University

- Delivered 6+ workshops (Python, IoT, AI) and supported in engineering labs; mentored students via the Learning Support Center.
- Supervised hands-on projects (cloud-powered IoT surveillance with ESP8266 + sensors).

Technical Skills

Languages & Tools: Python, C/C++, C#, Java, Verilog, MATLAB, SQL, JavaScript, TypeScript, HTML, CSS, Dart (Flutter), Git, CI/CD, REST APIs

AI/ML & CV: TensorFlow, PyTorch, OpenCV, ONNX, YOLOv4/v5/v8, Transformers, Hugging Face, FinBERT, TF-IDF, scikit-learn, spaCy, WEKA, LLMs (GPT-4o-mini), RAG, Prompt Engineering

Edge/Embedded: Raspberry Pi, Arduino, ESP8266, BLE, sensor integration, FPGA, Quartus Prime

Cloud/Tools: Google Cloud Platform, Microsoft Azure, Streamlit, SPSS, Tinkercad, Blynk, Vercel, Docker, Supabase, Cloudflare, Namecheap

Full-Stack: MERN (MongoDB, Express, React, Node.js), Next.js, FastAPI, Supabase (Postgres/Auth/RLS), SQL/NoSQL

Networking: Cisco IOS, Routing & Switching, VLAN, VLSM, DHCP, DNS, SDN concepts, Wireless LAN, Network Security

Dev Methods: Telegram Bot API, Gmail API, Faster-Whisper, Piper TTS, MetaTrader 5 (MQL5) backtesting, JWT Auth, Agile/Scrum, PERT, debugging, optimization

Soft Skills: Communication, Leadership, Problem Solving, Teamwork & Collaboration, Time Management & Organization, Critical Thinking

Senior Project - VISION

Edge-AI / Computer Vision Engineer

2025 – 2026

Rafik Hariri University

- Engineered VISION: AI smart glasses + haptic shoes + BLE health band for visually impaired users.
- Implemented on-device object detection with YOLOv8 on Raspberry Pi 5 (4x cameras) + ONNX optimization (quantization/pruning), achieving 2–3s response.
- Integrated BLE health monitoring and speech alerts (Piper TTS); conducted user testing with 15+ participants.

Projects

- Morfity AI Sales Assistant & Dashboard (Production): Bilingual (Arabic/English/Arabizi) AI sales widget + 8-page analytics dashboard deployed for a live client (FastAPI, GPT-4o-mini, React, Docker); found and fixed a cross-tenant security vulnerability pre-launch.
- OneSub Dive Center — onesub.store (Production): Full-stack Next.js/Supabase e-commerce platform, live in production with secure checkout and admin dashboard; domain via Namecheap, DNS/CDN via Cloudflare, hosted on Vercel.
- MetaTrader 5 Algorithmic Trading Bots (Live Deployment): Designed, back-tested, and deployed 5 risk-tiered strategies (XAU/USD, USD/JPY, EUR/USD, BTC/USD, ETH/USD) to a live demo account for real-time monitoring.
- Sentiment Analysis (Financial News): FinBERT + TF-IDF + SVM for sentiment/aspect analysis and fake-news detection (Python, scikit-learn, Hugging Face).
- AI Job Recommender: Resume-to-job matching using spaCy/Transformers and TF-IDF + cosine similarity; Streamlit analytics dashboard.
- Pothole Detection System: Real-time road-defect detection using YOLOv4 + OpenCV from vehicle-mounted video feeds.
- Dynamic Traffic Management (Prototype): Adaptive signal control with YOLOv5 + ONNX + OpenCV; emergency vehicle prioritization logic.
- Embedded IoT: Multi-sensor MCU integration and automated greenhouse control (Arduino, sensors).

Certifications

Cisco CCNA | Microsoft Azure Fundamentals (Jan 2025) | Semicolon Academy Cybersecurity Program | LinkedIn Learning | Full Stack Web Development | DeepLearning.AI Multi-AI Agent Systems (CrewAI)

Languages

Arabic (Native) | English (Fluent)