

Ahmad Sharara

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EXPERIENCE

Automation & Integration Engineer

Jan 2026 – Present

Aligned Tech

Hazmieh, LB

- Designed and deployed automation workflows, chatbots, and web scraping solutions using Make, Chatcore, and custom APIs — connecting platforms end-to-end to streamline operations and reduce manual workload.
- Integrated conversational bots with **WhatsApp Business** numbers via the **Meta for Developers** platform and **Meta Business Suite**, configuring the **WhatsApp Cloud API** and authoring approved **broadcast/message templates** for automated customer outreach and notifications.
- Developed and maintained client-facing WordPress websites and managed ongoing bot/workflow optimization to ensure reliability, performance, and seamless system integration.

AI Developer Intern

Sep 2025 – Dec 2025

Apliman Technologies

Beirut, LB

- Built strong **AI/ML/DL** and **neural network** fundamentals by implementing **supervised** (logistic regression, SVM, decision trees, XGBoost) and **unsupervised** (k-means, PCA) models on **real datasets**, using proper **train/val/test** splits and comparing results via **accuracy, precision, recall, and F1**
- Advancing into deep learning with **PyTorch** and **TensorFlow**—reproduced baseline image/text classifiers, ran systematic hyperparameter sweeps (**learning rate, batch size, regularization**), and documented experiments in **Colab** with clear code, results, and production-ready notes

NLP Intern

May 2025 – Jun 2025

Jaber Consulting

Beirut, LB

- Fine-tuned **AraBERTv2/MARBERTv2/Asafaya**; soft-voting ensemble hit **up to 88% accuracy**. Shipped an MVP in **1 week** (Flask API + minimal React), then iterated to add **model selection** and **live confidence/label charts**
- Served models via **FastAPI/Flask REST** for real-time and batch, with **input validation** and **OpenAPI** docs; authored **reproducible training/eval** (accuracy/F1, confusion matrices) and experiment logging to enable **fast A/B tests** and **traceability**

PROJECTS

FlowPilot AI — AI Workflow Automation Platform | *FastAPI, React, TypeScript* | [Live Demo Code](#) Jul 2026

- Built and deployed a full-stack platform (**Vercel + Render/PostgreSQL**) to create, run, and monitor automation workflows chaining triggers, AI steps, and actions via manual and secure **webhook** triggers; **JWT** auth with per-user isolation and typed end-to-end APIs (**Pydantic v2 ↔ TypeScript**).
- Architected an **extensible execution engine** (step-registry/dispatch pattern) with output chaining and per-step audit logging, plus a **pluggable AI-provider abstraction** (OpenRouter + deterministic mock fallback) that runs with **zero API keys**.

Aspect-Based Sentiment Analysis — Financial News | *Python, FinBERT*

Feb 2025 – Mar 2025

- Implemented ABSA with TF-IDF and entity-sentiment mapping; shipped evaluation notebooks and a batch inference script (CSV outputs)
- Added claim-veracity pre-filter using an ensemble (Logistic Regression, Naive Bayes, Random Forest) with 98.6% accuracy; produced ROC curves and error analysis for QA sign-off

Prosthetic Arm Controlled using EMG and Voice Dependent Recognition

Sep 2024 – Apr 2025

- Built dual-mode control (EMG + on-device voice) achieving 50 ms sensing-to-actuation latency and 85%+ command accuracy; exposed REST control APIs and telemetry
- Engineered a 3D-printed 7-DOF hand powered by 7 servos via ESP32; designed a 12 V / 15 Ah power system for stable multi-hour operation

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, SQL (MySQL), HTML/CSS, PHP, TypeScript

Frameworks & APIs: FastAPI, Flask, React, jQuery, OpenAPI/Swagger, OpenAI API, Tailwind CSS, TanStack Query, Pydantic v2, SQLAlchemy 2

Platforms / CMS: WordPress, Meta for Developers, Meta Business Suite, WhatsApp Business API

Developer Tools: Git, GitHub Actions (CI/CD), VS Code, Visual Studio, PyCharm, Arduino, Linux, Docker, Vercel, Render

Databases: PostgreSQL, Redis

AI/ML: PyTorch, TensorFlow, scikit-learn, Hugging Face, XGBoost, SVM, pandas, NumPy, Matplotlib, NLTK, spaCy

EDUCATION

Rafik Hariri University

Bachelor of Engineering in Computer and Communications Engineering

Mechref, LB

Aug 2021 – May 2025