

# Ahmad Nouh

**AI Engineer**    LLM Applications, Agentic AI & Arabic NLP

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## PROFESSIONAL SUMMARY

AI Engineer with six years of experience across natural language processing (NLP), retrieval and Python backend services. Builds large language model (LLM) applications, agent workflows and document-processing systems. At MENT, reduced a core AI pipeline from **about 15 minutes to under 3**. At Lableb, built a production NLP service handling **up to 30,000 requests per day**.

## TECHNICAL SKILLS

**AI and retrieval:** LangGraph, LangChain, Retrieval-Augmented Generation (RAG), Model Context Protocol (MCP), n8n, embeddings, Neo4j, PostgreSQL/pgvector.

**Backend:** Python, FastAPI, Flask, REST APIs, SQL, Celery, RabbitMQ, Redis; Go and Java.

**ML and NLP:** Arabic NLP, text classification, named entity recognition, TensorFlow, Hugging Face, MLflow, DVC.

**Cloud and delivery:** Azure OpenAI, Azure Machine Learning, AWS EC2 GPU evaluation, Docker, Git, CI/CD, Grafana.

## PROFESSIONAL EXPERIENCE

### Blink

Nov 2025 - Jul 2026

#### AI Engineer

Falls Church, Virginia, United States | Remote

- Delivered attendee matchmaking and session recommendations using PostgreSQL/pgvector and Python/FastAPI, with automated tests, CI/CD and staged deployments.
- Designed and evaluated a **beta, feature-flagged LangGraph agent** with five tools for booking, attendee search, location lookup and document parsing.
- Built multimodal extraction with Docling and Gemini 2.5 Flash to convert flight and hotel PDFs and images into structured data.
- Evaluated Gemma 3 12B on AWS EC2 G5 GPUs with Ollama, measuring time to first token, throughput, latency, memory and GPU utilization to assess self-hosting feasibility.

### MENT

Oct 2023 - Oct 2025

#### AI Engineer

Falls Church, Virginia, United States | Remote

- Reduced a core AI pipeline from **about 15 minutes to under 3** by parallelizing extraction across asynchronous LLM calls for different schema sections and handling mapping and validation in Python.
- Improved data-to-profile attribution by **approximately 33%** versus the prior system, particularly for people with identical or similar names.
- Contributed to multi-agent enrichment workflows in n8n, including MCP tool integration, RabbitMQ integration and retries, and Grafana tracing.
- Designed and implemented a Neo4j relationship knowledge graph for shared-interest, employer and multi-hop network insights.
- Built Python microservices and Celery workers for enrichment workloads, and integrated Azure OpenAI into retrieval and conversational services.

## PROFESSIONAL EXPERIENCE CONTINUED

### Lableb

Aug 2020 - Sep 2023

#### AI Engineer

Dubai, United Arab Emirates | Remote

- Built a production B2B spam-classification service handling **up to 30,000 requests per day** and filtering **about 90% of spam queries**.
- Improved Arabic spelling correction through iterative experiments; compared n-gram and neural noisy-channel approaches and used KenLM for better runtime with comparable results.
- Trained and evaluated Arabic NER, POS-tagging, transliteration and spelling-correction models in Azure Machine Learning; versioned related spelling artifacts with DVC.
- Built NLP microservices using Python, Go, Flask, Spring Boot and Go Fiber.

AI Engineer Intern | Lableb | Apr 2020 - Jul 2020

### Code Experts

Oct 2018 - Jan 2020

#### Web Developer

Damascus, Syria | On-site

- Built Angular and Ionic interfaces for video-on-demand and taxi-booking products; contributed Node.js backend work and a WebSocket chat feature connecting drivers and riders.

## SELECTED PROJECTS

### Second Memory | Personal knowledge assistant

Built and self-hosted a LangGraph/FastAPI assistant using Gemini embeddings and PostgreSQL/pgvector. Combined vector and full-text retrieval with Reciprocal Rank Fusion, with search and listing tools for saved web content and a Flutter client.

### End-to-End Topic Classification

Built an MLflow-based pipeline with training, hyperparameter tuning, class/slice evaluation and a Streamlit interface.

## EDUCATION

### Bachelor's degree in Information Technology Engineering

Damascus University | 2015 - 2021 | Artificial Intelligence specialization

## LANGUAGES

**Arabic:** Native or bilingual proficiency

**English:** Professional working proficiency

**Turkish:** Elementary proficiency

## SELECTED CERTIFICATIONS

DeepLearning.AI TensorFlow Developer | July 2021

Introduction to Machine Learning in Production | DeepLearning.AI