



Mohammad Nour Al Awad

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📍 **Work:** Saint-Petersburg (Russia)

ABOUT ME

PhD student and Machine Learning Engineer with a focus on adaptive LLM systems, agentic AI, and large-scale data-driven R&D. I combine academic research (3 publications in A/A* venues, 1 patent) with engineering experience in deploying LLMs, developing AI agents and intelligent assistants.

WORK EXPERIENCE

🏢 **ITMO University** – Saint Petersburg, Russia

City: Saint Petersburg | Country: Russia

Machine Learning Engineer

[02/2024 – Current]

Focused on developing adaptive LLM systems and agentic AI, with research contributions through papers and a patent:

1. AutoComplete – Huawei (AI-powered Developer Assistant)

- Designed and deployed multi-LLM serving with vLLM (autocomplete, fill-in-the-middle, chat).
- Built a VSCode plugin with code completion, chat, refactoring, docstring generation, and personalized RAG from user code (ChromaDB).
- Engineered a telemetry pipeline (35+ behavioral metrics) to model developer states (implementing, debugging, testing) and optimize suggestion timing, length, and acceptance.
- Published 2 papers in ASE 2025, including methods for adaptive delay adjustment, suggestion classification, and dynamic length control.
- Filed a patent covering the full adaptive suggestion system.

2. Data Visualization Voice Assistant

- Developed a voice + text assistant for tabular data (Django + FastAPI).
- Integrated Whisper (ASR), Qwen2.5 (code generation), Coqui TTS (speech output) with LangGraph-based orchestration.
- Delivered secure code execution, multimodal outputs (tables, plots, speech), and on-the-fly modality switching.
- Published a research paper in ICDM 2025, on system design, agentic workflows, and evaluation.

3. WebAgent (Prototype)

- Built a general-purpose web agent capable of Navigating websites (search, multi-step forms).
- Executing custom actions like click, type, scroll, and navigation actions reliably using Playwright.
- Extracting structured content and feeding it into downstream tasks.
- Performing multi-hop reasoning across pages (e.g., search → filter → retrieve → summarize).
- Study of open-source web agents (Browser-Use, Skyvern) to guide future R&D.

4. Data Scraping:

- Performed large-scale data scraping from GitHub (millions of files) to build high-quality datasets for fine-tuning custom code LLMs (Qwen, Llama, DeepSeek...).
- Conducted Reddit topic modeling on AI code assistant discussions to uncover user pain points and guide improvements in our systems.

ViShareTech LTD – China

Country: China

Embedded Developer

[07/2023 – 12/2023]

Developing software for wireless video streaming products, my contributions included:

- Integrating team solutions into the final products.
- Algorithms modeling, design, testing and optimization.
- Developing profiling tools boosting speed by x10 times.
- Automating testing processes for efficiency.
- High-level synthesis porting using Vitis HLS toolchain.

Higher Institute for Applied Sciences and Technology – Damascus, Syria

City: Damascus | Country: Syria

Machine Learning Researcher

[01/2022 – 09/2022]

Led the end-to-end development of a License Plate Recognition system, enhancing accuracy from 68% to 79%, where my contributions included:

- Coordinating data collection and annotation, and training the detection model.
- Developing and deploying a robust detector app on NPU-powered edge devices with IP Cameras.
- Developing a Flutter-based monitoring app with live streaming and archive browsing.

ICPC - International Collegiate Programming Contest – Damascus, Syria

City: Damascus | Country: Syria

Link <https://icpc.global/ICPCID/97KMPSV9DM6F>

Coach & Contestant

[09/2019 – 07/2022]

I trained and mentored ICPC freshmen participants in algorithms, data structures, and programming. My responsibilities included:

- Conducting live programming sessions in C++ for students.
- Providing detailed explanations and follow-up support to reinforce understanding.
- Teaching foundational to intermediate algorithms and data structures.
- Preparing practice problem sets to help students hone their skills.

EDUCATION AND TRAINING

Doctor of Philosophy | Human-Centered AI

ITMO University [09/2025 – 09/2028]

City: Saint Petersburg | Country: Russia | Website: <https://en.itmo.ru/>

Master's Degree | Big Data and Machine Learning

ITMO University [09/2023 – 06/2025]

City: Saint Petersburg | Country: Russia | Website: <https://en.itmo.ru/> | Field(s) of study: Large Language Models in Industry | Final grade: 5

Bachelor's degree | Software Engineering

Higher Institute for Applied Sciences and Technology [09/2017 – 09/2022]

City: Damascus | Country: Syria | Website: <https://hiast.edu.sy/en> | Final grade: The valedictorian graduate award with excellency rate of 86.17%.

Distinguished Individuals High School degree

National Center for the Distinguished [09/2014 – 07/2017]

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s): English | Russian

SKILLS

Python / Large Language Models (LLMs) / Prompt Engineering / Retrieval-Augmented Generation (RAG) / LangGraph / TTS / STT / FastAPI / ChromaDB / Qwen LLM / AI Assistants / Agentic AI / Deep Learning / GPU Serving / Django / TypeScript / C/C++ / MySQL / PyTorch / Micro services / FAISS

HONOURS AND AWARDS

[2022] Higher Institute of Applied Sciences and Technology

Valedictorian Graduate

ICPC - International Collegiate Programming Contest

ICPC Steadfast Gurus award (x2 times)

ICPC - International Collegiate Programming Contest

ICPC Extreme Programmer

Link: <https://icpc.global/ICPCID/97KMPSV9DM6F>