Yara Mohamed Nasser
Applied AI Engineer

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Education

Alexandria University *2020–2024*
BSc in Communications and Electronics Engineering
NTI *Associate Degree*
AWS Cloud Services Management and Operation

Publications

Latent Action Pretraining Through World Modeling *Submitted to ICRA 2026*
Supervised by Prof. Ian D. Reid, Mohamed bin Zayed University of AI (MBZUAI)

AI Work Experience

Leap Event Technology – AI Engineer **Oct 2025 − Present**
United States (Remote)
- Designed **agentic AI automation solutions** using Google ADK, OpenAI APIs, and Agents SDK to streamline workflows for events with thousands of attendees and multi-million-dollar budgets.
- Delivered **real-time analytics and automated reports** enabling data-driven decisions, reducing operational costs and optimizing resource allocation.
- Built **evaluation frameworks** for AI agents using RAG pipelines and **Arize Phoenix**, ensuring reliability and observability of production systems.
- Optimized **LLM inference pipelines** for low-latency multi-step task automation, supporting intelligent decision-making and personalized customer experiences.

Valeo Graduation Project – Team Leader, AI & Software Engineer **Oct 2023 − Aug 2024**
Cairo, Egypt
- Developed real-time **multimodal AI systems** for BCI-controlled robotics, integrating vision, signal processing, and sensor data for reasoning and decision-making.
- Optimized **TensorFlow models** for edge deployment with TensorFlow Lite and **CUDA acceleration**, achieving **78% latency reduction** while maintaining accuracy.

Made in Alexandria (M.I.A) Robotics – AI Mentor & Software Engineer **Aug 2023 − Oct 2024**
Alexandria, Egypt
- Co-founded AI team specializing in **computer vision** and **NLP**, mentoring newcomers in AI development.
- Developed control software and GUIs using **Node.js** and **Svelte** for **ROV/AUV** autonomous underwater vehicle systems.

Key Projects

- **AI Agent Ticketing System**: Built AI-driven system using Django, Google ADK, and MCP to automatically analyze GitHub issues and generate intelligent fix suggestions
- **GoogleADK Shopping Assistant**: Multi-agent AI system analyzing buyer behavior, ranking products, and simulating purchases
- **Face-to-Face Reenactment**: Adapted 3D reconstruction and dense face alignment models for realistic facial expression transfer
- **Synthetic Review Generator**: Controlled synthetic data framework generating GitLab reviews with NLP and LLM validation

Technical Skills

- **AI & ML**: PyTorch, TensorFlow, JAX, Hugging Face, LLMs, Multimodal Models, Agentic AI, MCP, RAG
- **ML Infrastructure**: vLLM, Ollama, TensorRT, TensorFlow Lite, ONNX, Triton Inference Server
- **Distributed Training**: PyTorch DDP, DeepSpeed, FSDP, Multi-GPU/Multi-Node Training, Model Parallelism
- **Optimization**: CUDA, cuDNN, Mixed Precision, Gradient Checkpointing, Flash Attention
- **MLOps & Cloud**: AWS (EC2, S3, SageMaker), Docker, Kubernetes, CI/CD, Weights & Biases, Arize Phoenix
- **Programming**: Python, C++, JavaScript, Java, MATLAB, Bash
- **Web Development**: Django REST Framework, React, Node.js, PostgreSQL, MySQL, Vector Databases

Additional Experience

Bit68 – Python Backend Developer **Feb 2025 − Oct 2025**
Cairo, Hybrid
- Developed scalable backend services using **Django REST Framework** for mobile apps, e-commerce platforms, and FMS.

Creatio Software – Django Full Stack Developer **Oct 2022 − Jun 2024**
Australia, Remote
- Built features for **Barcats** hospitality platform, implementing ML-based job recommendations and ranking algorithms.

Honors & Awards

1st place MATE Regional 2024 (advanced to USA), **4th place** internationally; **1st place** AUV category 2024 Underwater Robotics Challenge, nominated for **IROS 2024**; **2nd place** 2024 NOAA Ocean Exploration Challenge (Computer Vision)