

LOUAY AMOR

MLOps Engineer

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Docker Hub

Nabeul · Tunisia

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PROFILE

MLOps-focused software engineer building end-to-end AI solutions. Experienced in deep learning, cloud infrastructure, and deploying robust, scalable ML systems across the full development lifecycle.

EDUCATION

Bachelor in Software Engineering

IT Business School Nabeul

Sep 2023 to Jul 2026

Bachelor in Information Systems Development

ISSET Nabeul

Sep 2018 to Jul 2021

PROFESSIONAL EXPERIENCE

Full Stack Engineer · Gamma Academy

gamma-academy.com

Aug 2026 to Oct 2026

- Built a multi-tenant EdTech platform for 110 agencies with 1618 enrolled students on NestJS · Next.js · PostgreSQL · Prisma and Redis.
- Delivered 1005+ automated checks across 451 API · 225 web and 329 end-to-end scenarios with 4-stage Docker builds and zero-downtime releases.

MLOps Engineer, Final Year Project · RetinaXAI

Samaya Ophthalmology Clinic · retinaxai.me

Feb 2026 to May 2026

- Built an end-to-end diabetic retinopathy screening system on 35108 EyePACS retinal fundus images from ingestion to clinical deployment.
- Trained EfficientNet-B3 for five-class severity grading at 0.724 QWK · 78.7% accuracy and 0.867 macro AUC on 7022 test images.
- Kept gross misgrading to 0.85% with 64.5% recall on proliferative DR and Grad-CAM explanations validated by ophthalmologists.
- Instrumented the service with 39 Prometheus metrics producing 542 live series and 13 alerts for drift · accuracy regression and OOM recovery.
- Designed a RAG pipeline for structured clinical report generation with LangChain · Mistral-7B inference and cross-encoder reranking.

Freelance Software Developer

Self-employed

2021 to 2023

WomenUpV · VR Social Impact Project

NETINFO Nabeul

Feb 2021 to May 2021

- Developed an Unreal Engine 4 VR simulation for psychological violence awareness training.
- Implemented real-time behavioral tracking with Firebase and built an ML vulnerability-scoring model using Scikit-learn.

KEY PROJECTS

Reasona · RAG Architecture

Streaming RAG with FAISS · reranking · Mistral-7B · MLflow · github.com/louayamor/Reasona-RAG-Architecture EasyBooking

Microservices

Distributed hotel booking system with API gateway · service discovery · Spring Boot · Docker · Kubernetes and Helm Kidney Disease

Detection

MLOps pipeline with MLflow · DVC and AWS EC2 · S3 achieving 85% test accuracy.

2026

2025

2024

TECHNOLOGY STACK

Programming: Python · TypeScript · JavaScript · SQL · Dart

Machine Learning: PyTorch · Scikit-learn

MLOps / LLMOps: MLflow · DVC · experiment tracking · model registry · model monitoring · drift detection · model serving · RAG · prompt engineering · FAISS · LangChain

Backend: FastAPI · inference endpoints · NestJS · Spring Boot · REST APIs · JWT

Databases: PostgreSQL · Prisma · Redis · MongoDB · MySQL

DevOps / Cloud: Docker · Docker Compose · Kubernetes · GitHub Actions · Git · Linux · CI/CD · AWS EC2 · S3 · IAM · Prometheus · Grafana · Nginx

Frontend: React · Next.js · Flutter

Testing: Jest · Vitest · pytest

TECHNICAL SKILLS & METHODS

CNNs · EfficientNet · ordinal classification · transfer learning · YAML augmentation · stratified training · UNet · Dice and focal loss · DDR dataset · drift detection · reproducible pipelines · modular stages · metrics QWK · accuracy · Dice

SOFT SKILLS

Leadership Teamwork Problem Solving
Analytical Thinking Troubleshooting
Project Management Communication
Adaptability

LANGUAGES

LANGUAGES

English C1 · Arabic C1 · French B2