

Seifeldin Mahmoud

AI Engineer

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ABOUT

AI Engineer focused on cost-efficient low-latency inference. Experienced in building AI pipelines under explicit hardware constraints and reliability-critical backend architectures. Expected graduation May 2027

EDUCATION

AL AIN UNIVERSITY	ABU DHABI, UAE
Bachelor of Science in Software Engineering	2023-EXPECTED MAY 2027
<ul style="list-style-type: none">Honors List, 3.81/4 GPACompleted 78 credit hours	

EXPERIENCE

AL AIN UNIVERSITY	UAE
UNDERGRADUATE RESEARCH ASSISTANT	NOVEMBER 2025 — Present
<ul style="list-style-type: none">Conducting a systematic literature review on structured token pruning techniques to identify gaps in Vision Transformers' computational efficiency, specifically FLOPs, inference latency and accuracy retentionBuilt Trace, a Chrome extension that tracks and summarizes articles, streamlining multi-user team workflows	
LuxAI	UAE
Data Science Intern	JULY 2025 — Present
<ul style="list-style-type: none">Built Reelwise, an SEO analysis pipeline intercepting internal GraphQL traffic via Playwright for high-fidelity metadata extraction. Leverages Semantic Embeddings and Faster-Whisper for deep content analysisArchitected a triage pipeline that reduced heavy GPU inference by 60% by filtering low-signal inputs via CPU	
SMART NAVIGATION SYSTEMS	UAE
Software Engineering Intern	MAY 2025 — November 2025
<ul style="list-style-type: none">Spearheaded end-to-end development of Himaya71, a critical emergency response platform. Engineered a Django backend aggregating high-frequency IoT/YOLOv8 data, automating stale record cleanup via cron jobsDeployed a Next.js command center for live occupancy visualization, providing real-time calls to action	

PROJECTS

Oryx Engine — GitHub
<ul style="list-style-type: none">Architected a geo-aware SEO engine based on unsupervised clustering. Routed queries to language-specific embedding models then optimized dynamic K-Means for stable semantic grouping. Built a hybrid pipeline merging TF-IDF extraction with dense vector analysis to drive Generative Engine Optimization (GEO)
Resume Optimizer — GitHub
<ul style="list-style-type: none">Developed a privacy-first resume optimization platform using Next.js and Gemini. Implemented a two-phase prompt chaining architecture with Server-Sent Events (SSE) achieving 72% client-perceived latency reductionEngineered a custom input sanitization layer with 40+ regex patterns to detect context-aware prompt injection and XSS attacks, validated via Playwright E2E test suites and Upstash distributed rate limiting
AstroScope (PlanetX 2025) — GitHub
<ul style="list-style-type: none">Engineered a cross-platform fault-tolerant RAG pipeline, implementing a dual-tier workflow strategy that falls back from live data, ensuring availability during API overloads

SKILLS

<ul style="list-style-type: none">AI/ML: TensorFlow, scikit-learn, Hugging Face, NumPy, OpenCV, RAG, Vector DBsLanguages: Python, Bash, SQL, TypeScript, JavaScript, Java, CSS, HTMLFrameworks: Django, Node.js, Next.js, React, Tailwind CSS, GraphQLDevOps/Deployment: Linux, Docker, Git, Github Actions, Playwright, PostgreSQL
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CERTIFICATIONS

HarvardX CS50AI — Introduction to Artificial Intelligence	July 2025
DeepLearning.AI & Stanford — Supervised Machine Learning: Regression and Classification	July 2025
DeepLearning.AI & Stanford — Advanced Learning Algorithms	Dec 2025 - Present
DeepLearning.AI & Stanford — Unsupervised Learning, Recommenders, Reinforcement Learning	Dec 2025 - Present