

ABDELAZIM LOKMA

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Education

Boston University

Masters, Artificial Intelligence, GPA: 3.8 / 4.0

Boston, MA

Sep 2023 — Jan 2025

Boston University

Bachelor of Arts and Sciences, Major in Computer Science, Minor in Business Admin.

Boston, MA

Jan 2019 — May 2023

Experience

A.I Engineer

Efreshli

Apr 2025 — Aug 2025

Cairo, Egypt

- Launched Efreshli AI (**beta**) as a **one man team**, generating photorealistic room redesigns with Efreshli products; **reduced concept-to-design from weeks to hours**.
- Built a multimodal Python/Flask pipeline (OpenAI Responses API + semantic RAG via Pinecone/Chroma) to create shoppable concepts from a 4,000+ SKU catalog.
- Productionized on AWS (S3, Redis rate limiting, PostHog) to improve reliability, performance, and iteration speed.

Co-Founder & Lead A.I Eng.

Taffy

Jan 2025 — Present

Boston, MA

- Co-founded Taffy; built end-to-end AI interview platform that helps recruiters screen candidates faster.
- Re-architected AI evaluation pipeline (cache-aware prompting, parallel scoring, telemetry), **cutting per-eval AI cost ~10x and 2x processing speed**.
- Built a LiveKit multi-agent real-time voice interview orchestrator with graph-driven control and safety guardrails; **cut runtime cost by 66%** while maintaining screening quality.

Teaching Assistant - CS 611 Graduate O.O.P & Software Design in Java

Boston University

Sep 2024 — Dec 2024

Boston, MA

- Taught and mentored over 50 graduate students in lab sessions, providing guidance on Object-Oriented Programming concepts in Java.
- Collaborated with the course instructor to influence course design, helping to shape lab exercises and assignments to better align with learning objectives.

Projects

FairCase A.I | Python, ChromaDB, LangChain

Dec 2024

- Built FairCase for the National Lawyers Guild (MA), automating analysis of civilian complaints against Boston Police officers.
- Implemented a custom LangChain multi-query retriever that generates RAG queries per allegation from complaint context.
- Used RAG + ChromaDB to ground findings in BPD policy and produce explainable misconduct assessments with reprimand recommendations.

Fully Convolutional Network for Semantic Segmentation | PyTorch, OpenCV

Feb 2024

- Implemented and trained a Fully Convolutional Network (FCN-8s) with a VGG-16 backbone for semantic segmentation, optimizing key components like the forward pass, loss function.
- Fine-tuned model for semantic segmentation, achieving 27% mIoU on a custom dataset.

Skills

Programming Languages: Java, Python, C++, SQL

Frameworks & Libraries: Pandas, PyTorch, HuggingFace, LangChain, OpenCV

Cloud & DevOps: AWS Cloud Practitioner (CLF-02) Certified, Docker

Languages: Arabic (Native), English (Fluent), French (Conversational)