

# Ezzaldeen Hamdan - AI Engineer

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GitHub: [EzzHamdan](#) | Portfolio: [Project-9](#) | LinkedIn: [Ezzaldeen Hamdan](#)

## Education

**B.Sc. in Computer Science – Al-Ahliyya Amman University, Amman, Jordan**

**Fall 2021 – Spring 2025**

Excellence GPA of 3.69 (2nd in cohort) | Member of the AAU IT & DSAI Clubs | Honoree Graduation Project: [Uni-Archives](#) | [BCML-2025](#)

## Experience

**Artificial Intelligence Intern – Altibbi, King Hussain Business Park, Amman, Jordan**

**Sep 2025 – Jan 2025**

Applied machine learning techniques to healthcare data, focusing on NLP, LLM, RAG, MLOps, and ETL systems.

**Data Analyses & Visualization:** PowerBI, Tableau.

Worked with data to generate insights, create visualizations, analyze patterns, and build interactive dashboards for decision-making.

**Duplicates Detector System:** Python – Streamlit – MySQL – ChromaDB – Docker.

Replaced legacy TF-IDF with a high-performance system to help the SEO team identify overlapping content on the Altibbi website.

- Built an end-to-end ETL pipeline for 10+ MySQL tables with data cleaning, content consolidation, and resumable processing.
- Created a scalable embedding workflow with batching, caching, and storage of 100k+ vectors and metadata in ChromaDB.
- Reduced detection process from 3 hours to 15 minutes by building a rapid engine with cosine similarity and star clustering.
- Added production safeguards, read-only DB access, metadata handling, a Streamlit UI, and config-based automated runs.

**Medical RAG Chatbot:** Python – Streamlit – MongoDB – Milvus/Qdrant – Docker – Jenkins.

Explored and implemented a full RAG/LLM stack in healthcare, building production-ready pipelines for search and retrieval.

- Built an asynchronous web-scraping pipeline to collect and chunk 15k+ Altibbi news and articles with fault tolerance.
- Designed and deployed a production embedding pipeline storing vectors in both Milvus and Qdrant for semantic search.
- Implemented a 3-layer RAG stack (classification, refinement, retrieval) with OpenAI models and strict source citation.
- Set up CI/CD pipelines with Jenkins and Bitbucket, integrating Docker-based builds to streamline deployment workflows.

**Rotational Intern – the Islamic International Arab Bank, Amman, Jordan**

**Aug 2024 – Sep 2024**

Rotated across 11 IT departments, gaining exposure to enterprise systems, security, and software development best practices.

- Assisted in Oracle 21c installation, learned Oracle RAC, and managed backups, LTO tapes, and card issuance.
- Gained experience in the SDLC, database administration, and middleware integration across APIs and mobile platforms.
- Collaborated with Quality Control on testing, iMAL systems, and security frameworks like ArcSight and intrusion prevention.

## Featured Projects

**AI-Learning-Engine:** Python – Streamlit.

**Jun 2025 – Aug 2025**

An AI-powered platform that transforms documents into interactive quizzes and study materials with advanced scoring capabilities.

- Built a multi-provider AI system supporting Local AI (Ollama), Google AI, and OpenAI with runtime API key management.
- Implemented document processing with text summarization for large files and support for PDF, Word, and PowerPoint.
- Created a quiz system with adjustable difficulty and question types (MCQ, T/F, open-ended) along with an AI-driven scoring.
- Developed a study materials generator creating summaries, cheat sheets, flashcards, and key terms with adaptive difficulty.

## Featured Certifications

**Artificial Intelligence – Samsung Innovation Campus**

**Oct 2025**

Completed an AI training covering machine learning, deep learning, NLP, and data analysis. culminating in an AI Capstone Project.

**Agentic AI Certificate – SHAI**

**Jun 2025**

Earned certification on the principles, design, and development of AI systems with autonomous, goal-directed behavior.

**GitHub Foundations Certificate – GitHub**

**May 2025**

Achieved certification with an 80% score, covering repositories, collaboration, project management, and best practices.

**EF SET English Certificate (C2 Proficient) – EF SET**

**Nov 2023**

Achieved C2 proficiency in English, demonstrating advanced reading and listening comprehension skills.

## Skills

### Technical Skills:

#### Languages

Python, JavaScript, Java, C#

#### Libraries & Analysis Tools

FastAPI, ASP.NET, Streamlit,  
PowerBI, Tableau

#### Automation & MLOps

Jenkins, Docker, Portainer,  
Git, GitHub, Bitbucket, Kafka

#### Databases & ML Tools

MySQL, PostgreSQL, Qdrant,  
Milvus-lite, ChromaDB

### Soft Skills:

#### Strategic Thinking

Project Management, Critical  
and Analytical Thinking,

#### Collaboration

Teamwork, Cross-Cultural  
Communication, Leadership

#### Creativity

Innovation, Persuasion,  
Adaptability, Curiosity

#### Personal Growth

Willingness to Learn,  
Resilience, Self-Motivation

Please visit my LinkedIn, portfolio, or GitHub for a comprehensive overview of my qualifications, including projects, code samples, certifications, and additional materials. All information is available upon request. I look forward to the opportunity to discuss further.