

Ezzaldeen Hamdan - AI Engineer

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Education

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

Oct 2021 – July 2025

Excellence GPA of 3.69 (2nd in cohort) | Member of the AAU IT & DSAI Clubs

Experience

Machine Learning Intern, Altibbi, King Hussain Business Park, Amman, Jordan

Sep 2025 – Present

Applied machine learning techniques to healthcare data, focusing on NLP, retrieval-augmented generation (RAG), and MLOps.

- Implemented RAG pipelines, scraping 15k+ articles, embedding them, and integrating GPT-4 for accurate healthcare Q&A.
- Developed and optimized Producer-Consumer Pipeline for scraping, vectorizing, and embedding in vector databases.
- Automated workflows with Jenkins and Bitbucket pipelines, streamlining deployment processes.

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

Aug 2024 – Sep 2024

Gained insight into the banking industry's IT theoretical frameworks and best practices across 11 IT departments.

- IT Operations & Database Administration departments:** Involved with backup processes, tape management (LTO), and card issuance. Assisted in Oracle 21c installation and learned Oracle Real Application Clusters.
- Quality Control & Security departments:** Worked with IT Quality Control on testing cycles and reporting, explored the iMAL system, and was exposed to security frameworks for intrusion prevention and ArcSight.
- Systems Development & Digital Dev departments:** Gained insights into the Software Development Life Cycle, database management, and middleware integration, including APIs and mobile platforms.

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.

Uni-Archives: C# – ASP.NET – Bootstrap – JavaScript – MS SQL.

Oct 2024 – Feb 2025

A platform to help students share and access academic resources while earning revenue for their contributions.

- Led a team of three in developing the platform, managing design, functionality, and meeting deadlines.
- Incorporated Google AdSense and Payment API for revenue generation and secure payment processing.
- Integrating the Tesseract OCR library and the ChatGPT API for AI-driven discussions on submitted materials.

Workshops & Certifications

GitHub Foundations Certificate – GitHub

May 2025 – May 2028

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

Agentic AI Certificate – SHAI

2025

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

BCML-2025 Seminar – Al-Ahliyya Amman University

2025

Attended a seminar on blockchain, cybersecurity, and machine learning featuring expert talks and panel discussions.

EF SET English Certificate (C2 Proficient) – EF

2023

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

Skills & Languages

Technical Skills:

Languages

Python, JavaScript, Java, C#

Frameworks & Libraries

FastAPI, ASP.NET, Streamlit, Bootstrap

Automation & MLOps

Jenkins, Docker, Portainer, Git, GitHub, Bitbucket

Databases & ML Tools

MySQL, PostgreSQL, Qdrant, Milvus-lite

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.