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.
- Utilized a Celery-based queueing system to manage and scale periodic tasks efficiently.

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.

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.

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   Nov 2023
Achieved C2 proficiency in English, demonstrating advanced reading and listening comprehension skills.

Skills

Technical Skills:

Languages	Frameworks & Libraries	Automation & MLOps	Databases & ML Tools
Python, JavaScript, Java, C#	FastAPI, ASP.NET, Streamlit, Bootstrap	Jenkins, Docker, Portainer, Git, GitHub, Bitbucket	MySQL, PostgreSQL, Qdrant, Milvus-lite

Soft Skills:

Strategic Thinking	Collaboration	Creativity	Personal Growth
Project Management, Critical and Analytical Thinking,	Teamwork, Cross-Cultural Communication, Leadership	Innovation, Persuasion, Adaptability, Curiosity	Willingness to Learn, Resilience, Self-Motivation