# Abdallah Amin Hasan Salah


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## SUMMARY


AI/ML Engineer with hands-on experience in Computer Vision, Handwriting Recognition (HTR/OCR), and ROS-based robotics simulation. Currently working as an AI Developer on RAG systems using Hugging Face. Completed the **42Amman** Piscine (C/Unix, algorithms, pointers, recursion). Built and evaluated deep learning models in TensorFlow with solid data pipelines (Pandas/NumPy), clear experiment tracking, and clean, peer-reviewed code


## CORE SKILLS

- Programming: Python; C (42 Piscine); Java; C++; JavaScript; HTML/CSS
- ML model training & evaluation (Accuracy, F1, CER/WER); data augmentation; transfer learning
- LLM & RAG: Retrieval-Augmented Generation, Hugging Face (Transformers/Datasets)
- Data & Visualization: Pandas; NumPy; Matplotlib; Seaborn; Jupyter Notebook
- CV & Robotics: ROS; RViz; Gazebo; URDF; SLAM & Path Planning (A*, Dijkstra)
- Tools: Git/GitHub; Linux; Bash

## Work experience

**AI Developer — injo4.0 company May 2025 – Oct 2025**

- Design and build RAG pipelines over domain documents (chunking, indexing, retrieval, evaluation).
- Use Hugging Face models for embedding and inference; optimize prompts and context windows.

**Full Stack Developer — Prosys company May 2025 – Aug 2025**

- Delivered end-to-end web features across frontend and backend.
- Improved reliability and usability through testing and iterative enhancements.

**Software Development Trainee Intern — 42 AMMAN Company Jun 2025 – Jul 2025 (Full-time, Piscine)**

- Intensive low-level programming bootcamp in C and Unix fundamentals.
- Built 20+ mini-projects using system calls (write, malloc, etc.) under strict code standards.

**Artificial Intelligence & Data Analysis Intern — Intern Intelligence (Remote) Dec 2024 – Mar 2025**

- Developed ML pipelines for data analysis and predictive modeling; performed EDA.
- Trained models in TensorFlow and created visual reports; contributed to documentation.

**AI & Robotics / Technical Officer — IEEE HU Student Branch & IEEE Pitchinno Dec 2023 – Present**

- Organized technical sessions and mentored peers on AI/ML, ROS, and Arduino.
- Coordinated cross-team activities and prepared learning materials and demos.

## Education

### B.Sc. Data Science & Artificial Intelligence

**Hashemite University (HU)**

**Zarqa, Jordan** **2021 - 2025** • Specializing in Data Science and Artificial Intelligence, with a strong focus on machine learning, deep learning, and AI development.

- Possess extensive expertise in deep learning, machine learning, statistics, probabilities, and data analysis.

**42 Amman – Software Development Trainee (Piscine Program)**

**Amman, Jordan** **June – July 2025**

**Certificate: Piscine Completion – 42 Amman**

- Completed an intensive, full-time technical bootcamp covering low-level programming in C and Unix system fundamentals.
- Built over 20 mini-projects using only system calls (write, malloc, etc.) under strict.

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## COURSES & CERTIFICATIONS

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- **Microsoft Azure Fundamentals (AZ-900) — Certificate**
- **Microsoft AI Fundamentals (AI-900) — Certificate**
- **AWS AI Practitioner — Certificate**
- **AI RAG SYSTEMS Course, injo4.0 company**
- **IoT Course, injo4.0**
- **ERP Systems Course**
- **Leaders Program, IEEE Jordan Section**
- **Arduino Course, IEEE RAS**
- **ROS (Robot Operating System) Programming, Udemy**
- **Python AI (Machine Learning), The Hope International Organization, 60 hours (Sep 2022 – Jan 2023)**

## PROJECTS

- **Submittal Builder** — RPA Integration Toolkit (AI-assisted automation) | 2025 – Present
- **QUILL** — Speech-to-Speech Robot Assistant (ROS) | 2025 – Present
- **Sky Flow Agent** — Airline Customer Service AI | 2025 – Present
- **Robotics Simulation** – Developed and programmed a virtual robot using RViz.
- **Deep Learning & Machine Learning Applications** – Various projects, including predictive modeling and AI

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### Arabic Handwritten Text Recognition (HTR) using Machine Learning & Deep Learning | Hashemite University

- Designed and implemented an end-to-end HTR system for Arabic script using CNN-based neural networks for feature extraction and sequence modeling.
- Manually labeled and curated the training dataset due to the limited availability of high-quality Arabic handwritten data.
- Applied preprocessing techniques including image binarization, skew correction, and augmentation to improve recognition accuracy.
- Evaluated performance using Character Error Rate (CER) and Word Error Rate (WER). Tech: Python, NumPy/Pandas, OpenCV, custom CNN models, Matplotlib.
  Keywords: Arabic OCR/HTR, CNN, dataset labeling, sequence modeling, error rate evaluation.
- [The gihub project]