

# 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

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## 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

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## Work experience

### AI Developer — injo4.0 company

May 2025 – Present

- 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.

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## 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

- **Ai RAG SYSTEMS Course**, injo4.0 company
- **IOT Course**, injo4.0 company
- **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 from Sep 2022 to Jan 2023.

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## PROJECTS

- **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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## Graduation Research

### (Handwriting Recognition Using Deep Learning)

A research project focused on applying deep learning techniques for handwriting recognition and translation. The model was trained on specialized datasets using CNNs and NLP techniques to improve accuracy in text recognition and language translation.