

Danah Alakrash

AI Engineer | Full-Stack Developer

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PROFILE

Innovative Computer Science graduate and Full-Stack Developer with experience in designing and deploying intelligent software solutions. Skilled in the full development lifecycle, from integrating machine learning models to building responsive web interfaces. Specialized in system optimization and real-time processing, with a strong commitment to creating efficient, scalable, and high-performance applications.

EXPERIENCE

Nighat

06/2025 – 08/2025

Full-Stack Developer Intern (AI-Powered Industrial Systems)

- Designed and deployed YOLOv8-based object detection models, achieving 98%+ accuracy in classifying and grading dates on industrial sorting lines.
- Integrated AI models into Raspberry Pi edge devices, enabling real-time inference at 10+ FPS.
- Optimized model performance, reducing latency by 30% through pruning and quantization.
- Collaborated with software engineers to connect models to a React-based monitoring dashboard with live image feedback and production stats.
- Contributed to the full AI pipeline: dataset annotation (10K+ images), model training, evaluation, deployment, and live system integration.

Khawla Ali Saleh Al Dhalan Factory

09/2021 – 01/2024

Administrative Clerk

- Provided comprehensive administrative support to factory management, ensuring efficient daily operations.
- Managed official documentation, records, and filing systems to ensure data accuracy and easy retrieval.
- Handled incoming and outgoing correspondence, serving as a primary point of contact.
- Assisted with scheduling, data entry, and preparing reports for factory administration.
- Coordinated with different departments to facilitate smooth workflow and task completion.

EDUCATION

Qassim University
Bachelor of Computer Science

06/2026

PROJECTS

LevelUp

An AI-powered recruitment platform featuring a resume analyzer and interview coach using SBERT and Cosine Similarity

AI Color Palette Generator

A deployed Streamlit web application that uses K-Means clustering to extract color palettes from images

Touchless Air Mouse

A gesture control application using OpenCV and MediaPipe to control mouse functions via hand tracking

SKILLS

AI & Machine Learning

Deep Learning, YOLO, Generative AI NLP, Fine-Tuning, Seq2Seq Models, PyTorch, Hugging Face, TorchText, OpenCV, MediaPipe, Scikit-learn, Sentence-Transformers (SBERT)

Development & DevOps

Full-Stack Development, React.js, Django, FastAPI, Streamlit REST APIs, Docker

Computer Vision

Clustering, Cosine Similarity

CERTIFICATIONS (IBM, 2024)

- Fundamentals of AI Agents Using RAG and LangChain
- Generative AI Engineering and Fine-Tuning Transformers
- Generative AI Fine-Tuning for LLMs
- Generative AI Language Modeling with Transformers
- Generative AI Engineering with LLMs Specialization