

# Danah Alakrash

AI Engineer | Full-Stack Developer

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## SUMMARY

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Innovative Full-Stack Developer specializing in technical AI engineering roles. Experienced in designing and deploying intelligent software solutions, 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.

## PROFESSIONAL EXPERIENCE

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**Nihat, Full-Stack Developer** 06/2025 – 08/2025

- 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 (30K+ images), model training, evaluation, deployment, and live system integration.

**AI Dhalan Factory, Administrative Clerk** 09/2021 – 01/2024

- 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

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**Qassim University, Bachelor of Computer Science** 06/2026

## SKILLS

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**AI & Machine Learning** (Deep Learning • YOLO • Generative AI NLP • Fine-Tuning • Seq2Seq Models • PyTorch • Hugging Face • TorchText • OpenCV • MediaPipe • Scikit-learn • Sentence-Transformers (SBERT) • Random Forest • Linear Regression • K-Means Clustering • Cosine Similarity.) |

**Development & DevOps** (Full-Stack Development • React.js • Django • FastAPI • Streamlit • REST APIs • Docker. Next.js • Vercel • Transformers.js • WebAssembly (WASM)) | **Data Engineering** (Target Normalization (Logarithmic Transformations) • Cardinality Reduction • Categorical Encoding) |

**Soft Skills** (Cross-functional Collaboration • Technical Communication • Problem Solving, Project Organization • Time Management & Scheduling.)

## CERTIFICATIONS (IBM, 2024)

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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

## PROJECTS

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### **Personal Portfolio Platform** [🔗](#), [DevDanah.com](#)

Engineered and deployed a custom Next.js application on Vercel's edge network to serve as a live, interactive showcase for machine learning models.

### **LevelUp**

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

### **Semantic Text Matcher**

Developed a local NLP inference pipeline computing high-dimensional vector embeddings using Transformers.js and WASM directly in the browser.

### **Salary Predictor**

Deployed a highly accurate Linear Regression API utilizing scikit-learn and Next.js, trained to predict employee salaries based on corporate data.

### **Watch Price Predictor**

Built a comparative machine learning pipeline analyzing 45,000+ secondary market watches to predict non-linear pricing. Applied Logarithmic Transformation to normalize highly skewed target variables and Cardinality Reduction to optimize features. Evaluated a parametric Linear Regression baseline against a non-parametric Random Forest Regressor.

### **Touchless Air Mouse**

A gesture control application using OpenCV and MediaPipe to control mouse functions via zero-latency hand tracking.

### **AI Color Palette**

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

### **A\* Visualizer**

Created an interactive state-space web solver using React that visually demonstrates how heuristic search algorithms solve logic puzzles.