

Sadeem Faihan AlBoqami

Computer Engineer

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SUMMARY

Computer Engineering professional specialized in AI and Autonomous Systems. Expertise in developing Edge AI models (YOLOv8, LSTM) for Smart City applications using ROS 2 and NVIDIA Jetson. Proven leader in delivering high-impact Digital Transformation and AI-driven technical solutions.

EDUCATION

B.Sc. Computer Engineering

Taif University

08/2021 – 07/2026

Taif, Saudi Arabia

- GPA: 3.67 out of 4.00
- Relevant Coursework: Machine Learning, Embedded Systems, Electronics, and Robotics.
- Achieved Distinction marks across all Computer Engineering Laboratories.

PROFESSIONAL EXPERIENCE

AI Data Center Operations Bootcamp

Saudi Digital Academy (SDA) & WeCloudData

08/2026 – Present

- Managed and deployed scalable AI infrastructure and GPU workloads using Docker and Kubernetes orchestration.
- Built and containerized low-latency AI inference services utilizing FastAPI and Python in dedicated Linux environments.
- Implemented infrastructure observability and performance monitoring pipelines using Prometheus and Grafana dashboards.

Full Stack Robotics Engineer Intern

Smart Methods

06/2025 – 08/2025

- Engineered integrated robotic systems by bridging mechanical designs with ARM and ESP32 microcontrollers for precise motor control.
- Deployed real-time Computer Vision and NLP models on embedded systems to enable autonomous perception and interaction.

PROJECTS

PRECRASH AI

AI-Driven Traffic Diagnostic and Road Safety System | Capstone Project

09/2025 – 06/2026

- Developed real-time YOLOv8/LSTM safety system for predictive vehicle detection and diagnostics.
- Led 8-member team through full lifecycle: from CARLA simulation to NVIDIA Jetson hardware deployment.
- Optimised models via TensorRT and ROS 2 to achieve low-latency edge inference and node synchronisation.

SKILLS

Programming & Systems

Python, C++, SQL, Linux/Ubuntu, Bash

AI Infrastructure & DevOps

Docker, Kubernetes, Prometheus, Grafana, FastAPI, MLOps

Frameworks & Edge AI

PyTorch, ROS 2, OpenCV, TensorRT, YOLOv8

Hardware & Platforms

NVIDIA Jetson Orin Nano, ESP32, ARM Microcontrollers

Soft Skills

Technical Leadership, Analytical Problem-Solving, Project Management, Academic Communication

COURSES

AI Skills Accelerator

IBM & King Saud University

01/2026 – 03/2026

- Advanced Machine Learning, MLOps, and industrial AI workflows.

Getting Started with AI on Jetson Nano

NVIDIA Deep Learning Institute

04/2026

LANGUAGES

• Arabic

• English