

RAYAN SAAD ALTAWIJARI

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PROFESSIONAL SUMMARY

Computer Science graduate (GPA 4.46/5.00, four-time Academic Excellence Award). IBM-certified in Generative AI Engineering, with hands-on work in LLM fine-tuning, RAG pipelines, and on-device computer vision. Led a five-person team to design and ship an edge-AI assistive wearable end to end. Works comfortably across Python, C++, Java, and Dart — from model deployment to cross-platform application development.

EDUCATION

B.Sc. in Computer Science | Qassim University, Buraydah

June 2026

GPA 4.46 / 5.00 • Academic Excellence Award — 4 consecutive years (2023–2026)

PROFESSIONAL EXPERIENCE

IT Support Specialist — Traineeship | Upsource by solutions (stc Group subsidiary)

2025 jun - aug • 3 months

- IT Support Specialist internship at Upsource by solutions (an stc Group company). Delivered frontline technical support, resolved hardware and software issues to ensure seamless daily operations.

KEY PROJECTS

VIAD — AI Smart Glasses for the Visually Impaired | Technical Lead [GitHub repo](#)

Edge-AI Capstone

- Led a **5-person engineering team** across the full hardware/software lifecycle to design, build, and ship wearable smart glasses that help visually impaired users navigate their surroundings.
- Deployed an optimized **SSD-MobileNet** model on a **Raspberry Pi** via **TensorFlow Lite**, enabling real-time object detection entirely on-device with no cloud dependency.

Saydali — Bilingual Pharmacy Medicine-Finder | Flutter · Supabase · AI

Target Release: 4th quarter 2026

- Built a cross-platform Flutter app to find medications and the nearest in-stock pharmacy, fully **bilingual (AR / EN)**.
- Architected one codebase serving three roles — consumer search & booking, pharmacy inventory and booking queue, and a chain-admin KPI dashboard — with role-based routing (`go_router`) and Riverpod.
- Designed a repository-pattern data layer that runs on mock data by default and swaps to a full **Supabase backend (PostgreSQL, row-level security, realtime, auth)** behind a single flag, with no UI changes.
- Integrated a **Claude-powered AI health assistant** through a server-side edge function with safety guardrails (no diagnosis or prescribing; escalates emergencies); developed with **41 passing tests and GitHub Actions CI**.

TECHNICAL SKILLS

Programming Languages: Python, SQL, C++, C, Java, Dart, JavaScript

AI & Machine Learning: LLM fine-tuning, RAG architectures, LangChain agents, transformer models, NLP, TensorFlow Lite, PyTorch, Scikit-learn, SSD-MobileNet, LLM API integration, on-device / edge inference

Frameworks & Backend: Flutter, React Native, Firebase, Django, Supabase, PostgreSQL, REST APIs

Tools & Platforms: Git, GitHub, unit & widget testing, algorithm optimization, multithreading, Linux, Docker

CERTIFICATIONS & TRAINING

Generative AI Engineering Professional Certificate

FUTUREX · IBM · Coursera Nov 2024

| Professional Certificate Track

- Core Architecture:** Deep Learning & Transformer mechanics, Language Modeling for NLP, and LLM pre-training data preparation.
- Advanced Fine-Tuning:** Supervised Fine-Tuning (SFT), parameter-efficient adaptation (PEFT/LoRA), and model alignment techniques.
- Production RAG & Agents:** Built vector-retrieval Retrieval-Augmented Generation pipelines and autonomous LangChain agents.
- Capstone Credential ID:** [FXDL57L29G53](#) & [J5LTOZRZJMZW](#)

Flutter and Dart: Developing iOS, Android, and Mobile Apps

IBM · Coursera Feb 2025

- Focus:** Cross-platform mobile architecture, reactive state management, asynchronous Dart programming, and native compilation.
- Credential Verification ID:** [JQ493PEUF4RS](#)

LANGUAGES

Arabic (Native) • English (Professional)