MOHAMED AL BALKHI

Full Stack Software Engineer

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EXPERIENCE

Full Stack Software Engineer

Freelancing

04/2025 - Present

Remote

- Architected and deployed a serverless, generative AI platform on GCP using LangChain, Gemini API, and a Flutter frontend
- Rapidly developed a full-stack e-commerce solution React/RN on Supabase, delivering over 60% of core functionality in a 16-day sprint
- Optimized and enhanced a legacy . NET WPF application, resolving performance bottlenecks and shipping a custom QR code invoicing module

Saudi Arabia Solutions Developer

AITI SA

m 03/2025 - 04/2025

Makkah, Saudi Arabia

- Engineered and maintained custom Point-of-Sale POS modules using Java Swing to meet specific client operational needs
- Developed critical invoice integration tools using .NET Core and WPF, ensuring full compliance with regional tax authority regulations
- Architected and developed a high-fidelity prototype for "Atty," a mobile platform for connecting
 clients with home maintenance professionals, engineered a scalable backend using .NET Core Aspire
 and two cross-platform mobile apps.

Full Stack Software Engineer

Datos

= 09/2024 - 12/2024

O Damascus, Syria

- Delivered end-to-end features for the 'Lahloob' food delivery platform, enhancing overall application functionality and user experience using ASP.NET Core and Flutter
- Managed the full deployment lifecycle and administration for multiple 'Lahloob' web projects using IIS, ensuring high availability and performance
- Contributed significantly to the migration and refactoring of legacy backends to modern ASP.NET Core
 versions, improving business-critical API response times by ~20x (30-100 RPS => 1000-2000 RPS in
 best scenarios) and increasing development speed by 50%."

Flutter Developer

Datos

= 07/2024 - 09/2024

Oamascus, Syria

- Contributed to the development of three distinct Flutter applications Client, Partner, Driver) for the 'Lahloob' delivery ecosystem
- Applied BLOC and Clean Architecture principles to build and integrate features

EDUCATION

Bachelor's degree - Software & Information Systems Engineering

Syrian Private University

= 10/2020 - 03/2025

O Damascus, Syria

- Graduated With a GPA of 3.59/4.00 or 91.80%
- Achieved 1st place ranking in the college cohort for 7 of 9 semesters.
- Completed the 5-year degree program ahead of schedule in 4.5 years.

SUMMARY

Highly skilled Full Stack Software Engineer with deep expertise in .NET and Python (Django/FastAPI) environments. Specialized in building scalable microservices, architecting generative AI solutions, and implementing CI/CD practices on cloud platforms like GCP and AWS.

LANGUAGES

Arabic Native	••••
English Proficient	

SKILLS

.NET	Core	Dj	ango	Node	.js
FastAF	PI C	achi	ng M	icroser	vices
Pub/S	ub	RE	ST APIs		
Cloud	& De	vOps	5		
Git	Goo	gle F	irebase	e IAC	:
EC2	GC	P.	Linux	AW	S
Server	less	Ama	zon S3	Docke	r
Misc					

Agile Scrum	SQL/I	SQL/NoSQL		
Scripting	React	RAG I	Pipelines	
Flutter	E-Comm	nerce	Redis	

PROJECTS

Darsify (AI-Powered Learning Assistant)

06/2025 - Present

An Al-powered mobile study companion designed to enhance learning efficiency through generative Al. The platform is architected as a scalable, serverless microservices system on Google Cloud Platform, providing intelligent tools and a conversational interface via a cross-platform Flutter application.

- Engineered a sophisticated RAG (Retrieval-Augmented Generation) pipeline using LangChain, LangGraph, and the Gemini API to provide users with context-aware answers from their documents.
- Deployed the entire backend on a serverless infrastructure using GCP Cloud Run, Pub/Sub for asynchronous tasks, and Terraform for Infrastructure as Code IaC.
- Built a responsive, cross-platform mobile application using **Flutter** and the **Cubit** state management library, ensuring a clean, layered architecture for maintainability.
- · Integrated Neon DB PostgreSQL for primary data storage and Redis for caching to ensure high performance and low-latency responses.
- Utilized Firebase Firestore for content management related data.

Rapid-Prototype E-Commerce Platform

★ 08/2025 - 09/2025

A full-stack e-commerce solution architected for extreme development velocity, featuring a complete back-office dashboard and a client facing mobile storefront. The project demonstrated the ability to rapidly deliver a complex, feature-rich application, with **over 60%** of core functionality built and deployed in a **16-day sprint**.

- Architected the entire backend on Supabase, leveraging PostgreSQL, Row Level Security policies, and serverless Edge Functions to handle business logic.
- Constructed a comprehensive web-based management dashboard using React Vite) for store owners to manage products, inventory, and orders.
- Engineered an advanced, automated image processing pipeline using Supabase Storage that handled smart cropping, background removal, and conversion into multiple web-optimized formats (.webp).
- Developed the customer-facing, cross-platform mobile storefront using React Native and Expo, providing a seamless shopping and checkout experience.

AgileMeets (Graduation Project)

m 10/2024 - 02/2025

Al Powered Agile-Focused Online Meetings & Project Management System Designed and developed a scalable, **microservices-based** platform to streamline online meetings and project management, leveraging **Al** for enhanced productivity. The system was built using a variety of technologies, including **ASP.NET Core**, **Django**, **Node.js**, and **Flutter**, and followed best practices in software architecture and design.

- Drove the development and integration of key modules, including notifications, real-time meetings, and an Al-powered reporting engine, directly enhancing user engagement and functionality.
- Spearheaded the deployment strategy by Dockerizing all microservices and configuring auto-scaling pipelines on Fly.io and AWS EC2, ensuring optimal performance under varying loads.
- Self-hosted and integrated OpenVidu, an open-source meeting service, with our custom meeting service to enable seamless video
 conferencing.
- Built a **Flutter-based** mobile app using a **layered architecture** with **Cubits**, incorporating all necessary features and screens for a smooth user experience.
- Utilized Amazon S3 for bulk storage of recordings and shared objects across microservices.

Optilearn AI - An Intelligent Recommendation System for Knowledge Restoration and University Courses

m 02/2024 - 09/2024

Worked on the full lifecycle of Software Engineering from Requirements Elicitation until Testing and Deployment, including **research work** reading and evaluating multiple scientific papers about different recommendation techniques.

- Drove the Constructed a robust backend using Django (DRF) with Redis and Celery for asynchronous task processing, complemented by a responsive React.js frontend.
- Managed containerization by writing custom Linux scripts and Docker-compose files for deployment across AWS EC2, Azure VM, and DigitalOcean instances.
- Engineered a course recommendation engine integrated with the Udemy API, leveraging NLP techniques to provide intelligent suggestions from a library of over 140,000 courses.