

MOHAMMED ALTARHOUNI

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PROFESSIONAL EXPERIENCE

Full-Stack Developer, Masarat IT & Finance Services, Tripoli

August 2021 — December 2024

- Designing and developing banking mobile applications for major Libyan banks
- Optimized the user experience and maintained the user interface, reducing user complaints by 15%
- Discussing the technical specifications and guidelines with clients during live meetings
- Improved application speed by 25% and resolved critical bugs, maintaining a 99% app uptime Published projects with Masarat IT & Finance Services

Published projects with Masarat IT & Finance Services

- Masrafi Plus ([IOS](#) / [Android](#)) (Jumhouria Bank)
- Mobimal ([IOS](#) / [Android](#)) (National Commercial Bank, NCB)
- Wahda Mobile ([IOS](#) / [Android](#)) (Wahda Bank)
- MobiCash ([IOS](#) / [Android](#)) (Wahda Bank)
- Sahara Mobile ([IOS](#) / [Android](#)) (Sahara Bank)
- Masrafi Businesses ([Android](#)) (Jumhouria Bank)
- Sahara Corporate ([IOS](#) / [Android](#)) (Sahara Bank)

Data Migration Intern, Al Rajhi Bank, Riyadh

May 2022 — June 2022

- Supported daily data migration operations and ensured consistency in transactional records.
- Gained exposure to banking IT infrastructure and operational data pipelines.

Lead Engineer, Aman Bank, Tripoli

July 2017 — May 2021

- Led IT operations and engineering projects using Oracle Database, PL/SQL, Java, and core systems admin tools; represented IT in executive meetings.
- Managed and supported Oracle FLEXCUBE core banking platforms, coached staff, and performed Oracle SQL data extraction, maintenance, and troubleshooting.Led IT operations and engineering projects using Oracle Database, PL/SQL, Java, and core systems admin tools; represented IT in executive meetings.
- Configured and maintained VPNs, firewalls, and network security infrastructure; conducted routine audits and vulnerability assessments.
- Partnered with international teams (Oracle, Mastercard) to upgrade and optimize banking systems and integrations.

Oracle Banking Consultant, JMR Infotech, Tunis

February 2019 — January 2020

- Contributed to AMAN Bank's transition to FLEXCUBE and Oracle Digital Banking in Arabic.
- Led user acceptance testing, systems integration, and banking payments migration.
- Coordinated with users and international teams, supported integration with ECC, RTGS, ACH, SWIFT, and provided training and QA support for Oracle banking systems.

TECHNICAL SKILLS

Programming Languages

JavaScript, Java, Python, Kotlin, Visual Basic, Dart, Swift, PHP, HTML, CSS, TypeScript, MATLAB, PL/SQL, SQL

Libraries & Frameworks

React, Next.js, Node.js, Express.js, Tailwind CSS, Flutter, Angular, ASP.NET, Socket.IO, Zod, Folium, Swagger/OpenAPI

Databases

Oracle, MySQL, MongoDB, PostgreSQL, Firebase

Networking

CCNA, CCNP, CCNA Security

Tools & Platforms

Google Gemini API, REST API Design, Git, Firebase, Swagger/OpenAPI

EDUCATION

Master's degree in computer engineering (second-level studies)

February 2025 — Present

Wrocław University of Science and Technology, Wrocław

Bachelor of Engineering Science: Telecommunications Engineering

May 2012 — May 2017

University of Tripoli, Tripoli

SELECTED PROJECTS

MobiMal – Mobile Banking App

A secure, widely used mobile banking solution for the National Commercial Bank (NCB) in Libya, with 1M+ downloads. Provides account access, transfers, telecom payment services, wallet integration, card management, and more.

Technologies used: Flutter (Dart), Firebase (Crashlytics & Messaging), REST APIs, BLoC architecture, Fluro routing.

UniBot – AI Chatbot Platform for University Onboarding & Support

UniBot is a full-stack AI-powered chatbot system developed for enhancing student onboarding and automating FAQ responses in academic institutions. It enables real-time chat, multilingual support, and admin-controlled AI prompt management.

Technologies used: React (Next.js), Node.js (Express), MongoDB (Typegoose), Socket.IO, JWT, Google Gemini API, Tailwind CSS, Swagger, Zod.

5G Tower Optimizer

Python toolkit for analyzing 5G coverage and optimizing tower deployments via genetic algorithms. It processes OpenCellID tower data and population rasters, generates realistic user demand, and produces interactive coverage maps to minimize unserved demand and overload.

Technologies used: Python, Pandas, NumPy, Rasterio, SciPy (cKDTree), Folium, Genetic Algorithms

FoodApp – Food Squad Sushi Bar

Angular web platform for online food ordering and restaurant management. Includes user and admin modules with menu, table, and order workflows.

Technologies Used: Angular 17, TypeScript, NgRx, Stripe, Tailwind CSS, ApexCharts, RxJS, Appwrite, Java 17, Spring Boot 3, Spring Data JPA, H2, Swagger/OpenAPI, RDF4J.

Additional projects available on GitHub

ADDITIONAL INFORMATION

- **Links:** [GitHub](#), [LinkedIn](#)
- **Languages:** Arabic: Native, German: B1, English: C1

I agree to the processing of personal data provided in this document for realising the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)