

Yazan Mohamed

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PROFESSIONAL SUMMARY

Senior Flutter Engineer and early adopter (since 2019) specializing in the convergence of AI, Robotics, and Fintech ecosystems. Expert in deploying Generative AI—including OpenAI Vision, Vertex AI, and DialogFlow—and Computer Vision (Face/Vehicle Detection) into high-performance mobile applications. With 2+ years of hands-on robotics experience (Unitree, Booster Robotics, Pepper), I bridge the gap between complex hardware and software through voice-command automation and vertex-driven arm-bot movements.

A proven leader in delivering mission-critical solutions for Tier-1 organizations such as SEHA, EHS, and Mwasalat, I have a track record of achieving 99.99% crash-free sessions for POS and Kiosk systems in the UAE and Oman. Strategically proficient in architecting custom hybrid CI/CD infrastructures that outperform third-party solutions, ensuring faster, more resilient delivery in the Age of AI.

EXPERIENCE

Senior Flutter Engineer

Altkamul Altiqani Computers

2022/12/1 – Present, Dubai, United Arab Emirates

- Engineered the architectural overhaul of the mobile ecosystem, increasing the active merchant base from 120 to 2,300+ (1,800% growth) and elevating crash-free sessions from 60% to 99.9% across a fleet of 6,500+ devices.
- Designed and deployed a nationwide Kiosk solution for Malaa (Central Bank of Oman) in partnership with the National Bank of Oman; integrated ECR payment protocols and Cisco Webex for remote call center synchronization.
- Spearheaded the development of "AI Host" robotics for EHS (Emirates Health Services) across 5 major UAE hospitals, surpassing happiness metrics and security/privacy requirements. Leveraged ROS, Python, and C++ for industrial robots (Unitree/Booster Robotics) and Jetson-based edge processing.
- Redefined the "Catalogak POS" and Online Menu platforms, achieving millions of monthly transactions and 2 million menu visits.
- Developed specialized POS solutions for the General Authority of Islamic Affairs (Sharjah/Dubai), successfully facilitating over 2M AED in monthly digital collections.
- Architected a bespoke in-house CI/CD pipeline, reducing infrastructure overhead costs to zero and saving 14,000+ development minutes annually while improving code rollback safety through a custom branching strategy.
- Led and mentored a cross-functional team of engineers, supporting backend and UI/UX teams on critical problem resolution. Provided IoT smart-ticketing training for Mwasalat (Oman) and managed technical delivery for 65+ major regional events, including Gitex and the Bridge Summit.
- Engineered a creative AI Arm-Bot solution for the Publicity Group Middle East, utilizing Python, serial standard CNC commands, and cloud-AI for autonomous sketching and G-code generation.

Senior Flutter Developer

Unifi Solutions

2022/08 - 2022/12, Montreal QC (Remote), Canada

- Engineered high-precision geofencing solutions natively in Kotlin and Swift to bypass OS-level background execution limitations that standard Flutter plugins failed to address.
- Spearheaded the transition of legacy mobile applications from unmanaged Provider-based codebases to a robust Clean Architecture, significantly optimizing geo-service performance and code maintainability.
- Developed an automated attendance and check-in solution for a Canadian heavy-vehicle logistics firm, eliminating manual entry processes and significantly reducing check-in traffic for vehicle operators.
- Resolved high-sensitivity performance bottlenecks and bugs for IoT industrial applications, including asset-tracking systems for Metro/Subway systems, gas pipelines, and shipment container monitoring.
- Stabilized and enhanced mobile platforms used for monitoring sensitive infrastructure, including smart-lock controls and real-time sewage and water level telemetry.

Flutter Developer -> Senior Flutter Developer

Yes Soft

2021/02 - 2023/10, Berlin(Remote), Germany

- Promoted to Team Lead within a two-year tenure, managing a team of junior developers and overseeing the end-to-end delivery of mobile and web applications.
- Architected and deployed a custom "Biscuit Factory" boilerplate system to standardize delivery app development, significantly reducing time-to-market for complex Flutter projects.
- Orchestrated the full-scale redesign of the C4D ecosystem, resulting in a user base increase from 100 to 1,000+ merchants and a captain fleet expansion from 10 to 1,000+ active users.

- Successfully implemented secure Payment Gateways and In-App Purchase (IAP) systems across multiple applications to support subscription-based business models.
- Collaborated on high-scale integrations with major regional platforms, including Mrsool (KSA), to expand logistics and delivery reach.
- Developed and maintained a Flutter Web Dashboard for real-time administrative oversight, financial reporting, and user management.
- Delivered high-quality solutions for diverse markets, including a real estate platform in Turkey and specialized tourism guides in Saudi Arabia.

PROJECTS

Altkamul AI Robotics Experience | ROS, Python, C++, Jetson Edge, Computer Vision

- Developed an autonomous AI Host for major health institutions, utilizing Booster Robotics, Unitree, and Pepper hardware to automate hospitality and patient check-in workflows.
- Engineered complex arm-bot movements using G-code generation and Python, while implementing on-device edge processing for real-time face and vehicle detection.

Catalogak (Enterprise SaaS POS & Online Menu) | Flutter, BIOT, Serial/BLE, Clean Architecture

- A multi-platform SaaS ecosystem (Windows, Android, iOS) providing retail and grocery businesses with integrated POS and digital menu solutions.
- Developed a vast library of native plugins to facilitate communication with specialized hardware, including smart scales, thermal printers, barcode scanners, and fingerprint sensors via Serial, Bluetooth, and Cloud protocols.

Malaa (Central Bank of Oman Kiosk) | Flutter, ECR, Cisco Webex SDK, Fintech

- A nationwide government kiosk system designed for the Central Bank of Oman to provide individual and corporate credit score reports.
- Integrated ECR payment protocols for secure transactions and synchronized Cisco Webex for real-time video call center support directly through the kiosk interface.

Metrowatch (Smart IoT Asset Monitoring) | Flutter, BLE, IoT Cloud, Sensors

- A nationwide government kiosk system designed for the Central Bank of Oman to provide individual and corporate credit score reports.
- Integrated ECR payment protocols for secure transactions and synchronized Cisco Webex for real-time video call center support directly through the kiosk interface.

HighwayKing (Fleet & Logistics Management) | Flutter, Geofencing, Logistics

- A comprehensive fleet and human resource management platform for a Canadian shipping firm, centralizing asset tracking and employee attendance.
- Implemented high-accuracy native geofencing and real-time shipment monitoring to optimize delivery routes and driver check-in workflows.

C4D (Zero-Commission Delivery Ecosystem) | Flutter, Flutter Web, Scalable Architecture

- A tripartite delivery system (Captain, Store, and Admin Dashboard apps) focused on a commission-free model for restaurants and retail shops.
- Architected a scalable multi-platform codebase that grew the platform from a small pilot to a fleet of **1,000+ active captains** and merchants.

EDUCATION

Bachelor of Software Engineering

Arab University For Science and Technology - Syria • Hama • 2017 - 2022

SKILLS

Expertise: Flutter (Expert) | Dart, Android Native (Kotlin/Java) | iOS (Swift) | Flutter Web | Angular.

AI & Robotics: ROS (Robot Operating System) | Python | C++ | OpenAI (Vision, Chat Completion, Transcription, Speech-to-Audio) | Vertex AI | Google Cloud AI | DialogFlow (NLP) On-device Face Detection | Vehicle Detection | Object Tracking | G-Code & CNC Command Generation.

Fintech, Kiosk & IoT (Hardware Integration): SoftPOS | Hard POS Integration | ECR Protocols | Kiosk Payment Gateways (UAE & Oman standards) BIOT Integration (Bluetooth, Serial, USB) | Thermal & Label Printers | Smart Scales | Barcode Scanners | Fingerprint Sensors BLE (Bluetooth Low Energy) | MQTT | Smart Lock Control | Real-time Sensor Monitoring.

Architecture: Clean Architecture | SOLID Principles | BLoC (Business Logic Component) | Provider | MVVM | DI (Dependency Injection).

DevOps & Infrastructure: Custom In-house CI/CD Infrastructure Design | Hybrid Pipeline Management | GitHub Actions | Docker, Git (Advanced Branching Strategies) | Appwrite | Firebase (Auth, Firestore, Cloud Functions) | GCP (Google Cloud Platform) Performance Profiling (DevTools) | Unit & Integration Testing.