

# Yasser Jeroodi

Software Engineer

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Old Damascus

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## SUMMARY

Software Engineer with 3 years of hands-on experience building scalable and maintainable mobile applications with **Flutter and BLoC state management**. Strong background in delivering production systems using Clean Architecture, CI/CD pipelines, and Agile/Scrum practices. Focusing on reliability, testability, and real-time features. Passionate about writing clean code, collaborating in cross-functional teams, and continuously improving software quality.

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## KEY SKILLS

- **Flutter & BLoC:** Advanced Flutter development, BLoC/Cubit state management, modular architecture, Firebase.
  - **Architecture & Patterns:** Clean Architecture, SOLID principles, Design Patterns
  - **CI/CD & DevOps:** GitHub Actions / GitLab CI, automated builds, testing, and deployments
  - **Agile & Collaboration:** Scrum ceremonies, sprint planning, stand-ups, retrospectives, Jira
  - **Backend & APIs:** Django, REST APIs, WebSockets / SignalR
  - **Testing & QA:** Unit testing, integration testing, testable code, QA best practices
  - **Data & Security:** Secure token storage, encryption, authentication flows
  - **Tools & Versioning:** Git, Jira, Firebase, secure storage solutions
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## PROJECTS

### Al-Hadara Education Institute Management System

- Lead Flutter developer for a multi-app education platform (students, teachers, admins) built with **BLoC state management** and Clean Architecture.

- Designed and implemented scalable BLoC layers (events, states, and business logic) to manage complex flows: authentication, schedules, payments, notifications, and offline sync. Implemented feature-based BLoC modules for maintainability and easier testing.
- Improved reliability and testability by structuring presentation logic around BLoC, adding comprehensive unit tests for blocs and integration tests for critical flows, which reduced UI regressions.
- Implemented secure authentication (biometric & token-based), offline data persistence, real-time notifications (WebSockets), e-wallet payments, and barcode scanning.
- Acted as Team Lead & Scrum Master: managed sprints in Jira, facilitated Agile ceremonies, and coordinated with stakeholders.

### **Tourism Management System (DJANGO)**

- Designed and implemented REST API backend (Django & MySQL) for a tourism booking platform: authentication, bookings, reviews, payments, and loyalty systems.
- Integrated WebSocket-based real-time notifications and booking updates; enforced JWT authentication and role-based access control.

### **Core Banking System — Secure financial platform**

- Architected a secure, modular core banking platform emphasizing clean separation of concerns and testability using **BLoC state management and Clean Architecture (Data-Domain-Presentation)**.
- Applied multiple design patterns (Facade, Observer, Adapter) to simplify integrations and enable flexible extension points.
- Implemented real-time financial data streaming via **SignalR WebSockets** and secure token storage for sensitive data.
- Prioritized security and test coverage for critical transaction flows; added automated acceptance tests for end-to-end financial scenarios.
- Tech highlights: SignalR, Design Patterns, Clean Architecture, Security best practices, Firebase, automated testing.

### **QuitMate — Privacy-first wellness app**

- Privacy-first wellness app to help users quit smoking and manage compulsive behaviors, built with a local-first architecture using **Isar DB** for offline-first persistence and **Riverpod** for reactive state management.
- Implemented feature-level separation and robust state handling to ensure data integrity and predictable UI behavior.
- Built comprehensive automated testing suites and a CI/CD pipeline to maintain high stability.
- Tech highlights: Riverpod, Isar DB, CI/CD, automated testing, Firebase (analytics & push notifications).

## Gov-Citizen Complaint System — Civic engagement & tracking

- Civic platform for citizens to submit and track complaints with precise GPS tagging using **OpenStreetMap (OSM)** and robust location handling.
- Built with **Riverpod** for predictable state management; supported real-time administrative updates via SignalR/WebSockets and push notifications.
- Implemented high-security document encryption for sensitive attachments and comprehensive unit testing for core components.
- Tech highlights: Riverpod, OSM maps, GPS integration, SignalR/WebSockets, Firebase, encryption, unit testing.

## Drug Warehouse Management System

- Built mobile and web apps for warehouse inventory and logistics using Flutter, focusing on modular and testable codebases following Clean Architecture.

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## EDUCATION

**Faculty of Information Technology Engineering** — Damascus University (2021 - Present)

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## TOOLS & TECHNOLOGIES

Flutter · Dart · BloC · Riverpod · Isar DB · Hive · Django · MySQL · SignalR · WebSockets · OpenStreetMap · Firebase · CI/CD (GitHub Actions/GitLab CI) · Unit Testing · Integration Testing · Encryption · JWT · Git · Jira

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## LANGUAGES

Arabic (Native) · English (Fluent)