

ACHRAF TRABELSI

IOS TECH LEAD

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PROFILE

Senior iOS Tech Lead with 10 years of experience designing, architecting and shipping business-critical iOS apps for Fortune-500 clients (ENGIE, Société Générale, Crédit Agricole) and B2B SaaS editors (Oodrive). Expert in Swift, SwiftUI, Combine and Clean Architecture, I specialize in modular SPM architectures, centralized Design Systems, industrialized CI/CD pipelines and advanced quality practices (Swift Testing, SwiftLint, SonarQube). AI-assisted development pioneer: I use Claude Code daily and introduced a full AI workflow (MCP, custom skills, hooks) in the Oodrive Work iOS app. Technical Reviewer at Packt for the book "AI Driven Swift Architecture".

PROFESSIONAL EXPERIENCE

Oodrive — *SaaS software vendor - Digital trust*

iOS Tech Lead (December 2024 - Present) • Senior iOS Developer (October 2022 - December 2024) • Paris, France

Project "Work" — *Secure enterprise document management platform. iOS app (iPhone & iPad) delivered to top-tier customers (LVMH, Crédit Agricole, BNP, Paris Bar Association, etc.).*

- Designed and delivered a modular MVVM + Clean Architecture organized in 6 SPM modules (Presentation, OInject, MediaViewer, OBiometrics, OOrientation, DeveloperMode).
- Integrated 5 proprietary internal SPM libraries (OOCore - domain / data / logging, OODesignSystem - tokens & components, OOShared - utils, OOChat - messaging, OOSQLCipher - database encryption).
- Built the centralized Design System tokens (colors, typography, reusable components) to ensure visual consistency across all Oodrive apps.
- Dependency injection with Swinject (OoInject module) via the OoAssembly protocol.
- Built the PDF viewer on top of PDFTron 10.8 (annotations, search, export).
- Built a custom photo & video viewer in SwiftUI (zoom, orientation handling).
- Biometric authentication (Face ID / Touch ID) via the OBiometrics module.
- In-app chat integrated via OOChat: real-time messaging, presence, attachments.
- Offline mode: sync, caching and encrypted persistence (GRDB + SQLCipher).
- Internal developer mode: feature flags, API response inspector, Design System showcase.
- Centralized logger (OoLog) with data / network / UI contexts.
- Security: Keychain, AES-256 (CryptoKit), SQLCipher encryption for local databases.
- GitLab CI pipeline: lint → tests + codecov → SonarQube → Firebase deployment (5 Fastlane lanes, Mint, strict SwiftLint setup).
- Testing strategy: Swift Testing + XCTest + SwiftMocks, coverage reported through Slather (HTML + SonarQube).
- FR / EN localization (i18n wrappers for pending translations).
- Established the team's AI workflow around Claude Code: project-wide CLAUDE.md context file, MCP configuration (XcodeBuildMCP for build/test, apple-docs for Apple docs, mobile-mcp for automation), custom Claude Skills (SwiftUI Expert, Swift Concurrency, Swift Testing, iOS 26+ Liquid Glass), PostToolUse hook auto-running SwiftLint on every edit.
- Daily Claude Code driver (cmux, iTerm2) for AI pair-programming, test generation, modular refactors and AI-assisted code reviews.
- Tech leadership: architecture decisions, mentoring, code reviews, product & back-end alignment.

Environment: iOS 17+, Swift 6.2, Xcode 26.2, SwiftUI, Combine, Async/Await, MVVM, Clean Architecture, SPM, Swinject, PDFTron, GRDB, SQLCipher, CryptoKit, Keychain, Swift Testing, XCTest, SwiftMocks, Slather, SonarQube, SwiftLint, Fastlane, GitLab CI, Firebase, TestFlight, Figma, Confluence, JIRA, Claude Code, MCP, Claude Skills, cmux, iTerm2, SOLID, KISS, YAGNI, DRY.

Project "Oodrive OTP" — iOS TOTP generator app, 2FA-compliant, enabling users to secure their accounts (comparable to Google Authenticator).

- TOTP implementation fully compliant with 2FA standards (RFC 6238).
- Integrated encryption algorithms to secure secret keys.
- Optimized TOTP computation with clock-sync handling.
- Unit and automated tests to ensure code generation reliability.
- Secure Keychain storage, Haptic Feedback, polished SwiftUI UI.
- App Store Connect + Firebase Distribution deployments.

Environment: iOS, Swift, SwiftUI, Async/Await, MVVM, SPM, Micro-apps Architecture, Keychain, GRDB, SQLCipher, XCTest, TestFlight, Firebase Crashlytics, JIRA, Confluence, Figma, GitLab.

Project "Oodrive Meet" — Professional solution to digitalize governance meetings: invitations, votes, minutes, in a highly secure environment.

- Implemented voting on meeting topics.
- Implemented recurring meetings.
- Migrated to Async/Await and SwiftUI for new screens.
- Removed CocoaPods, full migration of all libs to SPM.
- Performance tuning: leak detection & fix through Instruments.
- White-label generation (Crédit Agricole, etc.) via a custom in-house tool (AngularJS + Docker) which I also maintained.
- Code reviews, refactoring, unit tests, Firebase / App Store Connect deployments.

Environment: iOS, Swift, SwiftUI, Combine, Async/Await, MVVM, SPM, CocoaPods (legacy), AngularJS, Docker, XCTest, TestFlight, Firebase Crashlytics, CryptoSwift, JIRA, Confluence, Figma, Swagger, Postman, GitLab.

Project "Oodrive Share" — iOS app for secure sharing of sensitive business content and documents.

- Delivered the Public Groups feature: targeted sharing with one or several public groups.
- Fixed critical bugs in the OPDFKit module (PDF viewer) shared across several Oodrive apps.
- Fixed a major memory issue affecting multiple customers.
- Delivered white-label versions (LVMH, Crédit Agricole, BNP, Paris Bar Association...) through the internal custom tool.
- Maintenance, refactoring, code reviews, unit tests and deployments.

Environment: iOS, Swift, Objective-C, SwiftUI, Combine, Async/Await, MVVM, SPM, CocoaPods, AngularJS, Docker, XCTest, TestFlight, Firebase Crashlytics, CryptoSwift, JIRA, Confluence, Figma, Swagger, Postman, GitLab.

Packt — Technical publisher – Side project

Technical Reviewer (August 2025 – April 2026) • Remote (Birmingham, UK)

Project "AI Driven Swift Architecture" — Technical review of the book "AI Driven Swift Architecture" published by Packt.

- Technical validation of chapters: Swift code accuracy, architectural soundness, educational consistency.
- Improvement suggestions on architecture patterns, SwiftUI, AI integrations.

Environment: Swift, SwiftUI, Clean Architecture, AI, iOS.

Niji — Consulting firm – Mission at ENGIE (energy supplier)

Senior iOS Developer – ERL Feature Team (January 2020 – September 2022) • iOS Developer – SuiviConso Feature Team (December 2018 – January 2020) • Paris / Bagneux, France

Project "ENGIE Particulier – ERL" — Consumer iOS app to track energy consumption, read the meter, access invoices and install the ENGIE ERL key.

- Technical design and close collaboration with the product teams.
- Delivered the onboarding flow for the new ENGIE ERL key.
- Integrated the Netatmo SDK in direct partnership with the Netatmo technical team.
- Implemented real-time SSE (Server-Sent Events) streaming for consumption data.
- Proposed UX/UI improvements to streamline onboarding.
- Led the Beta testing rollout and handled stakeholder feedback.
- Maintenance, issue fixing, back-end logs monitoring through Kibana.
- Refactoring, code reviews, unit tests, Firebase / App Store Connect deployments.
- SAFe ceremonies (Daily, Refinement, Sprint Planning, Retro, PI Planning).

Environment: iOS, Swift, Objective-C, RxSwift, RxCocoa, Combine, SwiftUI, MVVM, XCTest, CocoaPods, Carthage, TestFlight, Firebase Crashlytics, Alamofire, CryptoSwift, WireMock, SSE, Bluetooth SDK, JIRA, Confluence, Zeplin, Swagger, Kibana, Postman, Git, GitLab, SAFe.

Project "ENGIE Particulier – SuiviConso & ENGIE Smart" — Continuity on ENGIE's consumer iOS ecosystem + R&D app "ENGIE Smart" for internal testers.

- Maintenance, issue fixing, memory leak hunt & resolution.
- Introduced HTTP cache for web service calls.
- Built an in-app rating system: moved the App Store rating from 3.2 to 3.9.
- Led a major UI redesign of the app.
- Replaced the Chart library with a custom base leveraging native Apple APIs.
- Delivered POCs for the ENGIE ERL key (GAS onboarding) on ENGIE Smart.
- API testing through Swagger & Postman, back-end log monitoring via Kibana.

Environment: iOS, Swift, Objective-C, RxSwift, RxCocoa, Xcode, JSON, MVVM, XCTest, CocoaPods, TestFlight, Firebase Crashlytics, Alamofire, CryptoSwift, WireMock, Bluetooth SDK, JIRA, Confluence, Zeplin, Swagger, Kibana, Postman, Git, GitLab, SAFe.

Easy Mountain — Hiking-focused startup

iOS Developer (August 2017 – August 2018) • Paris, France

Project "Mhikes" — Consumer iOS app (iPhone & iPad) for hiking: geo-located trails, guidance and orientation during the whole experience.

- Designed & implemented the MPMhikesPresentation framework (trail download & display).
- Designed & implemented the MPMhikesNavigation framework (navigation and POIs).
- Migrated the app & frameworks to Swift 4.
- Reactive programming with RxSwift.
- Integrated the Motwin SDK (back-end/mobile communication).
- iPhone X support, private CocoaPods setup, certificates, provisioning, Crashlytics.
- Customer support on the frameworks.

Environment: iOS, Objective-C, Swift 4, MVC, MVP, XCTest, Motwin SDK, CocoaPods (private), Google Maps, SDWebImage, TestFlight, Crashlytics, Alamofire, Realm, RxSwift, CryptoSwift, Bugtraq Redmine, SVN, Git.

Project "Who's Up" — Geo-located event-based social network enabling users to create events targeting like-minded friends.

- Defined the architecture.
- Built the iOS app from scratch in Swift.
- Created the MPMInstant framework (events, chat, Push Notifications).
- Motwin SDK integration, Swift 4 migration, iPhone X support.

Environment: iOS, Objective-C, Swift, MVC, MVP, XCTest, Motwin SDK, CocoaPods, Google Maps, SDWebImage, TestFlight, Crashlytics, Alamofire, Realm, RxSwift, CryptoSwift, SVN, Git, GitHub.

Société Générale — Banking

iOS Developer (January 2017 – August 2017) • Paris, France

Project "SogeSmart" — iOS app (iPhone & iPad) for Société Générale New-Caledonia customers: banking operations, account management, transfers...

- Added features (transfers, PDF statement view & download, real-time branch affluence).
- Motwin SDK integration for back-end communication.
- Maintenance, issue fixing, refactoring, code reviews.
- App Store Connect / TestFlight deployments.

Environment: iOS, Objective-C, Xcode, JSON, MVC, Motwin SDK, CocoaPods, TestFlight, Crashlytics, Bugtraq Redmine, SVN, Scrum.

Mobile Powered — Software vendor

iOS Developer (January 2016 – December 2016) • Tunis, Tunisie

Project "Crédit Agricole (Allemagne)" — iOS app for loan requests for Crédit Agricole Germany customers.

- Maintenance, issue fixing, design updates, App Store / TestFlight deployment.

Environment: iOS, Objective-C, Swift, MVC, CocoaPods, TestFlight, Crashlytics, SVN.

Project "MyInovallée" — App for Inovallée's employees (Grenoble Technopole): news, event registration, live commenting on conferences.

- New features (event list, calendar, live Tweet module).
- Ticket generation through QR Codes.

Environment: iOS, Swift, Xcode, JSON, MVC, CocoaPods, TestFlight.

Project "Galerie Photo" — Internal Instagram-like app: photo capture, internal and social network sharing.

- Designed and built the iOS app from scratch.
- Built the back-end in Node.js / Express.js (REST API).
- Push Notifications, chat, 3D display via SceneKit.

Environment: iOS, Objective-C, Swift, MVC, MVP, SceneKit, CoreData, AFNetworking, Alamofire, TestFlight, Crashlytics, Node.js, Express.js, SVN, Git, GitHub.

EDUCATION

National Engineering Degree in Computer Science – Mobile Information Systems

ESPRIT – École Supérieure Privée d'Ingénierie et de Technologies — Tunis, Tunisie • 2013 – 2016

Applied Bachelor's in Computer Science – Network & Services Administration

ISI Ariana – Institut Supérieur d'Informatique d'Ariana — Ariana, Tunisie • 2010 – 2013

TECHNICAL SKILLS

AI & Dev tooling	Claude Code (daily driver), MCP servers (XcodeBuildMCP, apple-docs, mobile-mcp), custom Claude Skills (SwiftUI, Swift Concurrency, Swift Testing, iOS 26+ Liquid Glass), PostToolUse hooks (auto-lint), prompt engineering, cmux, iTerm2
Languages & SDKs	Swift 6, Objective-C, SwiftUI, UIKit, Combine, Async/Await, RxSwift, Foundation, CryptoKit
Architecture	MVVM, Clean Architecture, VIPER, MVP, SPM micro-apps, Modularization, Coordinator, Screen factories
Design patterns	SOLID, KISS, YAGNI, DRY, DI (Swinject), Factory, Builder, Decorator, Adapter, Facade, Proxy, Composite, Observer
UI / Design	SwiftUI, Design System tokens, Figma, Zeplin, Reusable components, Animations, Haptic Feedback
Persistence & Security	GRDB, SQLCipher, CoreData, Realm, Keychain, CryptoKit, CryptoSwift,

	AES-256
Testing & Quality	Swift Testing, XCTest, SwiftMocks, Slather, SonarQube, SwiftLint, Code reviews
CI/CD & DevOps	GitLab CI, Fastlane, Firebase Distribution, TestFlight, App Store Connect, Mint, xcparse
Dependency management	Swift Package Manager (SPM), CocoaPods, Carthage
Networking & API	REST, JSON, Alamofire, URLSession, Swagger, Postman, WireMock, SSE, Socket.IO, Motwin SDK
Databases	SQLite, SQL, MySQL, NoSQL, MongoDB
JS / Web / Others	Node.js, Express.js, AngularJS, Docker, SceneKit, Unity3D
Methodology	Scrum, SAFe, JIRA, Confluence, Trello, Redmine, Mentoring, Tech leadership

CERTIFICATIONS & AWARDS

- KNX (ETS4 / ETS5)
- Swift
- Microsoft Imagine Cup – Tunisia Local Finals 2015 – Winner (Games Category)
- Microsoft Imagine Cup – Tunisia Local Finals 2015 – Finalist (Innovation Category)

LANGUAGES

French: Native / Bilingual • English: Full Professional • Arabic: Native / Bilingual

INTERESTS

- Apple technologies & mobile hardware
- Tech watch & developer community
- Cinema, football, video games