

FODIL FLITI

Full-Stack Software Engineer | Flutter & Mobile Specialist

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PROFESSIONAL SUMMARY

Software Engineer with professional experience since 2022, specializing in Flutter and cross-platform application development, with hands-on experience across web, backend, desktop, databases, and deployment. Experienced in taking products from concept to production, including offline-first systems, synchronization engines, complex administrative workflows, document generation, security-sensitive applications, and government software. Strong in application architecture, database design, performance optimization, and technical problem-solving. Currently working as a Software Engineer in digital transformation while expanding full-stack delivery through React, TypeScript, Node.js, and PostgreSQL.

CORE TECHNICAL SKILLS

Languages	Dart, TypeScript, JavaScript, SQL, Java, Python, Rust
Mobile & Cross-Platform	Flutter, Android, iOS, Flutter Web, Flutter Desktop, Riverpod, Responsive UI, Performance Optimization, Maps, Notifications, Payments
Frontend	React, TypeScript, Vite, Tailwind CSS, TipTap, Responsive Web Applications
Backend	Node.js, Express, NestJS, REST APIs, Microservices, Authentication, Authorization
Databases & Storage	PostgreSQL, SQLite, SQLCipher, Supabase, Firebase, Database Design, Migrations, Caching
Architecture & Engineering	Offline-First, Data Synchronization, State Management, RBAC, API Integration, Performance Optimization, Document Generation
AI-Assisted Engineering	Specification-Driven Development, AI Coding Agents, Multi-Agent Workflows, AI-Assisted Code Review, Database Analysis & Migration
Deployment & Tools	Git, cPanel, Node.js/PostgreSQL Deployment, Google Play, Apple App Store, Windows Packaging, Backups, Jira, Trello, Slack

PROFESSIONAL EXPERIENCE

Software Engineer – Digital Transformation

Mar 2026 – Present

Wilaya of Tlemcen, Algeria

- Develop production software for public-sector operations, including digital reporting systems and automated payroll infrastructure.
- Own end-to-end technical planning, system architecture, and full-stack implementation across web dashboards, desktop applications, encrypted databases, and synchronization pipelines.
- Design software tailored to complex administrative workflows, strict privacy/security requirements, and offline-first operational constraints.
- Leverage specification-driven and AI-assisted engineering workflows to plan, implement, review, and maintain large-scale production systems.

Full-Stack Developer – Flutter / Mobile Specialist

Aug 2022 – Mar 2026

Lemsa Innovation, Tlemcen, Algeria

- Engineered end-to-end production applications primarily utilizing Flutter across mobile, web, and desktop environments.
- Architected scalable client applications, robust database schemas, reactive state-management models, and optimized data sync routines.
- Contributed to scalable backend architectures using Node.js, Express, and NestJS integrated with PostgreSQL, SQLite, Firebase, and Supabase.
- Solved critical engineering challenges involving offline-first operational resilience, map engine integrations, automated multi-format PDF generation, media processing, and memory optimization.
- Managed full application store deployment, release pipelines, and version distribution across Google Play Store, Apple App Store, and Windows installer targets.

Full-Stack Software Engineer Intern

Jan 2022 – Jul 2022

EURL Data Master, Tlemcen, Algeria

- Led mobile development of the core Flutter application and contributed to web-based React administration dashboards and REST API backend integration for a municipal GIS.
- Architected relational database structures and application workflows optimized for offline-first field collection and low-bandwidth environments.

SELECTED ENGINEERING PROJECTS

LIGHTNESS – Digital Spiritual & Life Planning Application

Flutter | Supabase | PostgreSQL | SQLite | Responsive UI | REST API

Production mobile application functioning as a digital spiritual companion and life-planning system.

- Spearheaded core Flutter cross-platform mobile development and executed seamless migration from Firebase to Supabase.
- Engineered an intelligent local SQLite caching strategy to guarantee near-instant UI response times and drastically minimize remote server requests.
- Built comprehensive life-planning tools, funeral service location engines, beneficiary management modules, and financial debt tracking workflows.

Links: [Official Website](#) | [Apple App Store](#)

COORDATE – Task & Project Management Suite

Flutter | SQLite | NestJS | Microservices | AI Voice | Camera | PDF

Enterprise-grade task and project management suite engineered for remote field teams in intermittent internet environments.

- Designed a robust offline-first synchronization architecture backed by SQLite and a resilient, conflict-resolving local action queue.
- Developed custom interactive map visualizers featuring dynamic task aggregation and spatial clustering maintaining 60 FPS rendering.
- Implemented automated video-to-task pipelines using device camera capture, audio extraction, speech-to-text processing, and AI summarization.

Links: [App Listing on AppBrain](#)

OJORDESK – Public-Sector Payroll Desktop

React | TypeScript | Tauri 2 | Rust | SQLite | SQLCipher | Node.js | Express | PostgreSQL

High-security Windows desktop solution for public administrations managing employee careers, complex payroll calculations, and government payments.

- Modernized legacy payroll systems into a high-performance Tauri 2/Rust desktop platform featuring localized SQLCipher database encryption.
- Engineered offline-first operation with flexible LAN/cloud multi-device synchronization and automated historical legacy data migration.

Links: [GitHub Repository](#) / [Portfolio](#)

WALI RAPPORTS – Digital Reporting & Workflow Platform

React | TypeScript | Vite | Tailwind CSS | TipTap | Node.js | Express | PostgreSQL | Zod | JWT

Government digital reporting and decision-support platform built for a Wilaya governor's office to streamline inter-departmental communication.

- Designed strict hierarchical multi-stage reporting validation lifecycles moving from initial drafts to governor review, approval, and revision requests.
- Built a custom Arabic RTL rich text document editor using TipTap, featuring interactive tables, administrative templates, and dynamic multi-format exports.

Links: [Live Cabinet System](#)

QIWASH – On-Demand Cleaning Services Platform

Flutter | Flutter Web | NestJS | PostgreSQL | Payment Gateways

On-demand service booking ecosystem spanning consumer mobile clients, provider management interfaces, and administrative dashboards.

- Architected multi-app Flutter architecture for customers and service providers with real-time job dispatching and integrated web management portal.

ADDITIONAL ENGINEERING PROJECTS

- **MUNICIPAL GIS:** Offline-first geospatial software enabling municipal survey teams to log and analyze infrastructure data on site. (Flutter / Google Maps / React)
- **VALIZEX:** Travel and logistics coordination platform featuring smart notification grouping, message persistence, and media compression. ([valizex.com](#))
- **FLAMANE:** Commercial logistics and services suite providing live vehicle dispatching and package tracking across regional hubs. ([flamane.com](#))
- **FORINNOV:** Desktop school administration platform designed for offline operation with localized network sync and automated receipt printing. ([forinnov.vercel.app](#))
- **THAKRLY:** AI-driven educational software generating automated text summaries, active recall flashcards, and interactive quizzes from uploaded textbooks.
- **SMART DIGITAL WALLET:** Mobile fintech solution built for tracking transactions, managing loyalty points, and delivering localized merchant offers.

OPEN SOURCE / PUBLISHED PACKAGES

FLUTTER_SCALE_KIT (pub.dev): Published open-source UI scaling library enabling automatic responsive layout adaptations across mobile, tablet, desktop, and web with intuitive extension methods (.w, .h, .sp, .r).

EDUCATION & LANGUAGES

Master's Degree in Computer Science / Software Engineering • Abou Bekr Belkaïd University, Tlemcen, Algeria

Languages: Arabic (Native) • French (Intermediate) • English (Technical)

Key Project Links: Portfolio: [fodilfliti.is-a.dev](#) • GitHub: [github.com/fodilfliti](#) • LightNess: [lightness.world](#) • Wali Rapports: [cabinet.wilaya-tlemcen.dz](#) • ValizeX: [valizex.com](#) • Forinnov: [forinnov.vercel.app](#) • Flamane: [flamane.com](#)